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The CHEMIST AND DRUGGIST

Established 1859 28 Essex Street, Strand, London, W.C.2. *Registered as a newspaper*

No. 2721
VOL. CXVI.

APRIL 2, 1932

Annual Subscription (with Diary) 20/-. Single Copies 9d.

WHEN IT'S
DRUGS AND
GALENICALS
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PACKED SPECIALITIES
HIRST BROOKE & HIRST LTD

WHEN IT'S
DRUGGISTS' SUNDRIES
HIRST BROOKE & HIRST LTD

SHEEPSCAR WORKS, LEEDS

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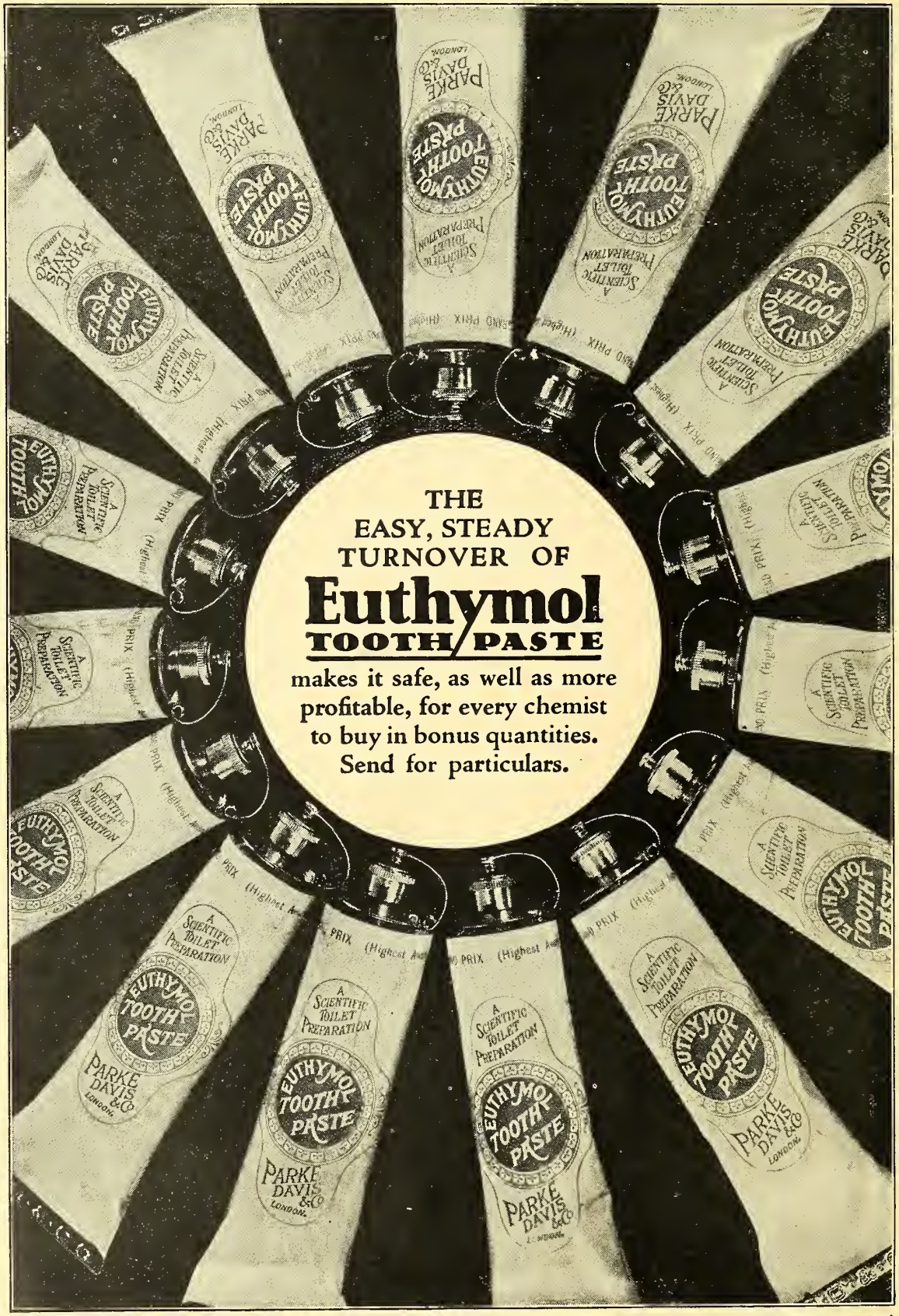

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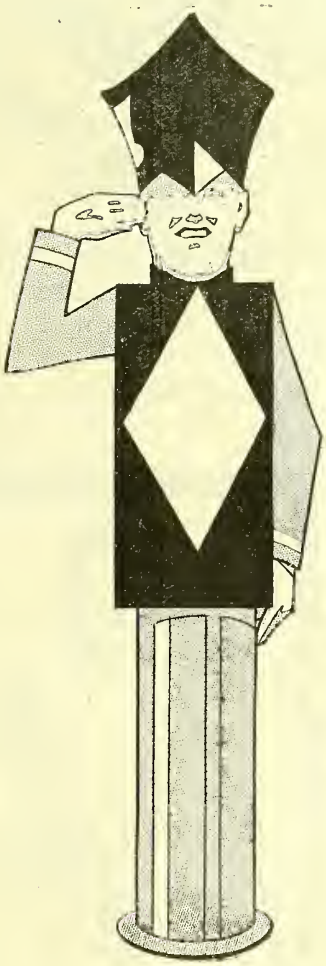

The "Selo" Advertising Campaign for 1932 will eclipse even the big and successful efforts of the past. Be ready to obtain the utmost benefit by ensuring that you have adequate stocks of all popular sizes.

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The fast FILM
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New Showcards and Window Pieces now ready

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ILFORD, LIMITED, ILFORD, LONDON

Our "MAGNA PRINT" Photographic Service *Means Big Profits for YOU*

You want a speedy first-class developing and printing service. We can give it to you. We can give you more—in the shape of "MAGNA PRINTS" (Regd.)—which mark the biggest advance in photographic printing for many years.

"MAGNA PRINTS" (Regd.) are exclusive to WILL R. ROSE, and they place the customer with the small camera (the backbone of your business) on a par with the man using the larger and more elaborate apparatus.

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$4\frac{1}{2}'' \times 3''$ from No. 2 Brownie size, $2\frac{1}{2}$d. each

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A same day service for developing and printing is guaranteed.

Write for further particulars, terms, booklet, etc. to

WILL R. ROSE

WHOLESALE PHOTO FINISHING DEPT.
20 ST. EBBE'S STREET, OXFORD

T.D.2

MAKE HAY with HALEX

The sun will shine brightly between APRIL 18th & MAY 14th

A 15/- gift, comprising 6 *free* Halex Dental Plate Brushes selling at 2/6 each, will be given with every ½ gross of Halex brushes ordered in the month beginning April 18th. A 30/- gift, comprising 12 *free* Halex Dental Plate Brushes, with every gross order. What is more, by ordering now you link up with a forceful Halex advertising campaign just beginning in the national dailies!

Send your order to your usual wholesaler, or to

THE BRITISH XYLONITE CO., LTD.,

HALE END, LONDON, E.4.

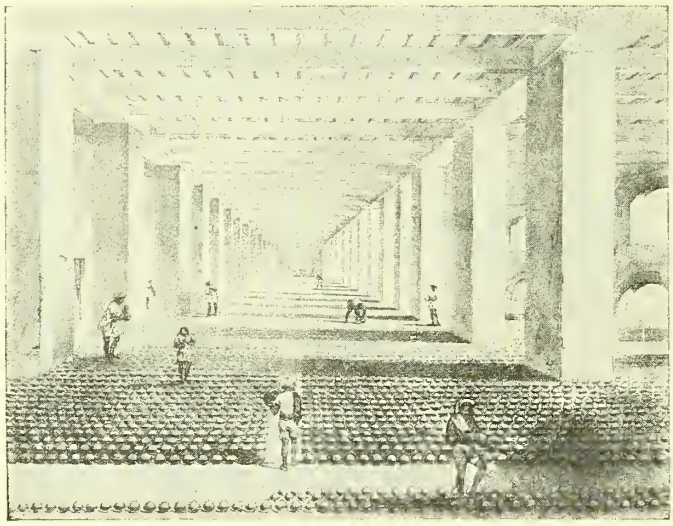
A FEW SPECIAL POINTS

1 Only ½ gross orders or 1 gross orders and upwards reaching us between April 18th and May 14th are eligible for the gift.

2 There is no restriction as to what Halex brushes you order. Choose any of the 7 Halex Toothbrushes or Dental Plate Brush, but do not order less than ½ dozen of any one kind. Standard assortment of 6 colours — Dental plate brush in grained ivory only.

3 Window display material of unusual design will be sent free with your order. You are asked to exhibit this for a fortnight beginning not later than May 16th.

The Romance of Empire Drugs (21)



Drying Opium, Patna

OPIUM
INDIA
Stafford Allen S

have prepared and standardised Opium for medicinal use in their Cowper Street factory for almost a century and manufacture all its preparations.

Est. *1833*

NO DRUG probably has a more interesting history than Opium. The Opium Poppy, *Papaver Somniferum,* is mentioned by Homer as growing in gardens. On account of its sleep-producing properties it was doubtless used for medicinal purposes from very early times. Reference to the milky juice which exudes from the capsule has been found in the works of Theophrastus, Dioscorides and others, whilst Wine of Opium was prescribed by Hippocrates, and from then on one finds the drug mentioned by all writers on medicine.

Cultivation of the Poppy extended successively over Asia Minor, Egypt, Persia, India and China. Its introduction to India would appear to be related to the spread of Islamism, being used probably as a substitute for wine, which was prohibited. In the days of the Moguls Opium was the monopoly of the Government, and this subsequently passed into the hands of the East India Co.

India once cultivated and exported Opium on a very large scale, the output going chiefly to China, where the variety was favoured. The Hague Conference (1912) and the more recent narcotic regulations of the League of Nations, however, have drastically curtailed production. Nevertheless, considerable quantities came to this country during the war and Indian Opium is being increasingly employed by morphine manufacturers to-day. The principal cultivation areas are Behar and Benares. Manufacture is under Government control, and formerly there were two important factories, one at Patna and one at Ghazipur. The Patna factory was closed in 1907. Three varieties of Opium are made at Ghazipur: (1) Provision Opium for export; (2) Excise Opium for Home consumption; and (3) Medical Opium for shipment to London and for Indian Medical Department supplies. The first occurs in balls or cakes of about 3½lb. The second is made up in packets of which 60 make a chest. Medical Opium is made into cakes or square blocks of 2 lb., usually wrapped in oiled paper.

Wholesale Trade only.

STAFFORD ALLEN & SONS LTD

Manufacturing Chemists, Essential Oil Distillers.
COWPER STREET, LONDON, E.C.2.

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Reliable House for all
Pharmaceutical Preparations
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Concentrated Waters.
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OPIUM
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Liquid Extracts.
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Syr. Glycerophos. Co.

"Silver Churn" Dairy Specialities

MANCHESTER

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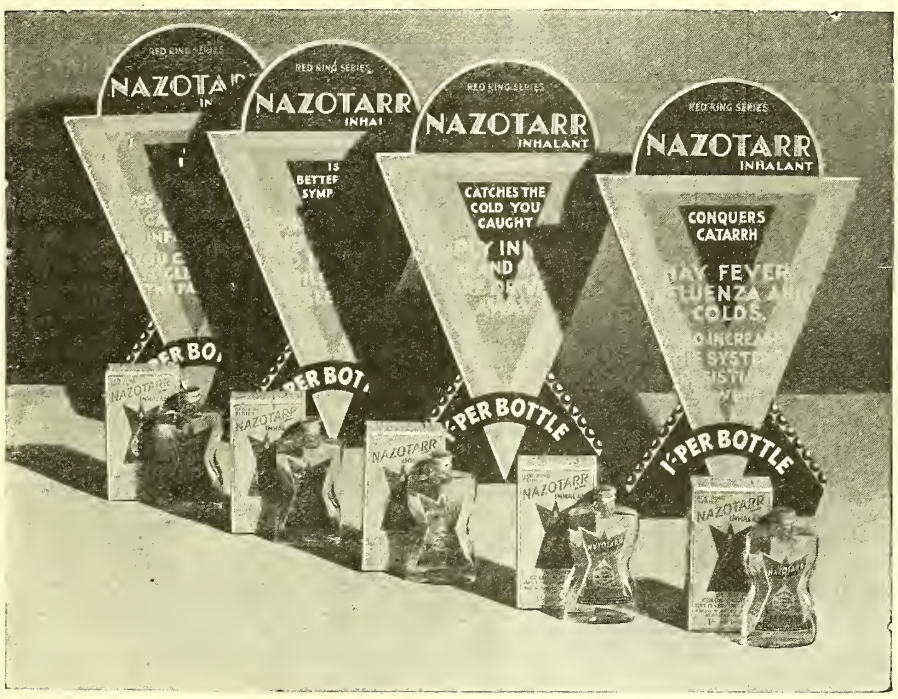

1/- per bottle

HAVE YOU ORDERED NAZOTARR BRAND INHALANT?

It is HAVING A WONDERFUL SUCCESS and is repeating at a phenomenal rate.

In the words of a customer:

"Its attractiveness captivates the eye and its efficacy is indisputable."

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'Grams - "Cupal, Blackburn"
'Phone - - Blackburn 6073.

THE HOUSE FOR

DRUGGISTS' SUNDRIES

SURGICAL SUNDRIES
HOT WATER BOTTLES
B.P.C. DRESSINGS
TOILET BRUSHWARE

TRADE BMW MARK
DEPENDABLE

SPECIAL ALL GLASS
SPRAYS. R.J.R. SERIES
LETTERED DELF JARS
NOVOLLA DELFETTE JARS
ELASTIC HOSIERY

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LONDON, S.E.1

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Near Southwark Bridge, South Side of River.

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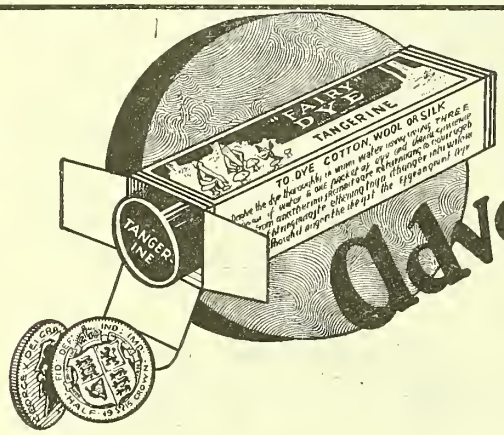


Advertised goods yield quick Profits

FAIRY DYES

are big sellers—always in popular demand. They mean quick turnover and liberal profits. Fairy Dyes are forging steadily ahead and you should periodically inspect your stocks.

Retailed at 2d. per tube—attractively packed. 31 shades and colours.

Be wise—stock

LONDON DEPOT:
292 UPPER ST.,
ISLINGTON - N.1

Fairy Dyes

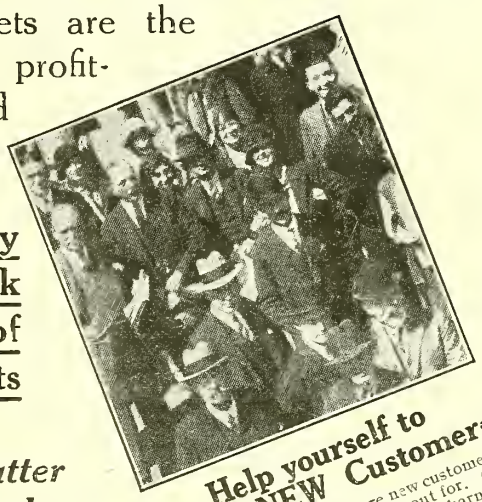
FAIRY DYES., LTD., GLASGOW, N.W.

Is *YOUR* Business suffering from "INDIGESTION"?

You may have a feeling that your business is suffering a little from "indigestion"—from those various items which don't quite agree with it. Therefore, it might be worth while investigating the excellent results you can achieve with such a regular weekly profit maker as Moorland Brand Indigestion Tablets. A popular line that not only succeeds in satisfying present buyers, but has a happy knack of winning New customers every day—the bold and forceful National Advertising Campaign creates these new customers and the superior quality of the product retains them. We can say without fear of contradiction that Moorland Brand Indigestion Tablets are the biggest selling and most profitable tablets of their kind on the market to-day.

Keep up a good display of these Wonderful Quick Sellers and be *Sure* of increasing your profits

Heaps of Good Showmatter sent FREE with every order



Help yourself to More NEW Customers

Every business wants more new customers, and they are well worth going out for. Get more new customers into your pharmacy through this vigorous Moorland Advertising. You will get them if you link up your own pharmacy with this campaign. The public will want Moorlands, and more and more customers will be sent to you.

W. B. CARTWRIGHT LTD. RAWDON NEAR LEEDS

Announcing the Introduction of a NEW LINE

5/3 PROFIT ON EVERY SALE

CHEMISTS ARE INVITED to write for an absorbingly interesting illustrated booklet which explains the merits of **"W-5"** brand tablets for rejuvenation of the skin from within —a wonderful new discovery which will be the topic of the day wherever women foregather.

AN EXCLUSIVE LINE A NEW LINE
A MOST PROFITABLE LINE

W-5 BRAND TABLETS

Fixed Retail Price

21/- per box

"W-5" brand tablets open a new era in the treatment of the skin and

BACKED BY NATIONAL ADVERTISING in all the leading papers appealing to women have wonderful sales possibilities.

This preparation embodies a new scientific principle and is the first to influence the skin biologically from within, thus restoring its health and beauty.

Supplies can be obtained from wholesale houses or from

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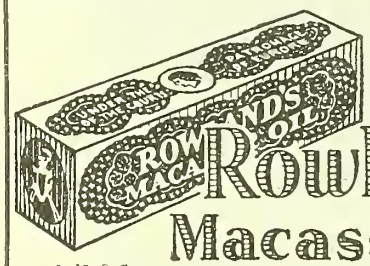
Literature and show material supplied free.

SELLING SUGGESTIONS

Rowland's Macassar Oil gives the hair lasting beauty simply by making it perfectly healthy.

Stock and recommend

Of all Wholesalers, to retail at 3/6, 7/- and 10/6.



Rowland's Macassar Oil

J. H. & Co.

A. ROWLAND & SONS, LTD.
22 Laystall Street, Rosebery Avenue, London, E.C.1

TAYLOR'S CIMOLITE TOILET POWDER
THE PERFECT POWDER FOR NURSERY USE

A perfectly bland and non-irritating Powder. Invaluable in all cases of Excoriations, Chafing, Roughness of the Skin, etc. Recommended by eminent skin doctors and recognised as the leading Toilet Powder for over 70 years by the nursing profession. Used in the Royal Households.

In deference to the many requests received from users of "CIMOLITE," a sprinkler tin to retail at 1/1½ is now available. This new packing is in addition to the familiar 1/1½ packet which is still on the market.

When ordering please specify TINS or PACKETS.

"CIMOLITE," in all sizes, also CIMOLITE SOAP AND CREAM, is stocked by all Wholesale Chemists and Druggists.

TERMS and ILLUSTRATED PRICE LISTS, also ATTRACTIVE SHOWCARDS, Counter Bills and other selling literature, obtainable from

JOHN TAYLOR, 30 Baker Street, Portman Square, LONDON, W.1.

JACKEL'S
OILAFIX

Here is a new composition—quite apart from Jackel's Original Hair Cream, and not a competitor—specially prepared to meet an actual demand for an oily preparation.

Already Oilafix has made a hit and we recommend you to stock it, together with the Original Jackel's Hair Cream.

OILAFIX *Trade Terms:*
12/- per doz., retailing at 1/6 per bott.
20/- per doz., retailing at 2/6 per bott.

JACKEL'S HAIR CREAM
11/6 per doz., retailing at 1/6 per bott.
18/- per doz., retailing at 2/6 per bott.

JACKEL et CIE (of Paris) Ltd.
GLASGOW, C.2

London Agents: **THE PHIL-SANO Co., Ltd., Craven House, Kingsway, W.C.2**

This PRACTICAL DEMONSTRATION COMMANDS ATTENTION

This Beautifully Coloured Storyteller—available with your assorted order—strikingly illustrates the simplicity and superiority of our All-British Economy Products.

IT IS BOUND TO INTEREST YOUR LADY CUSTOMERS!

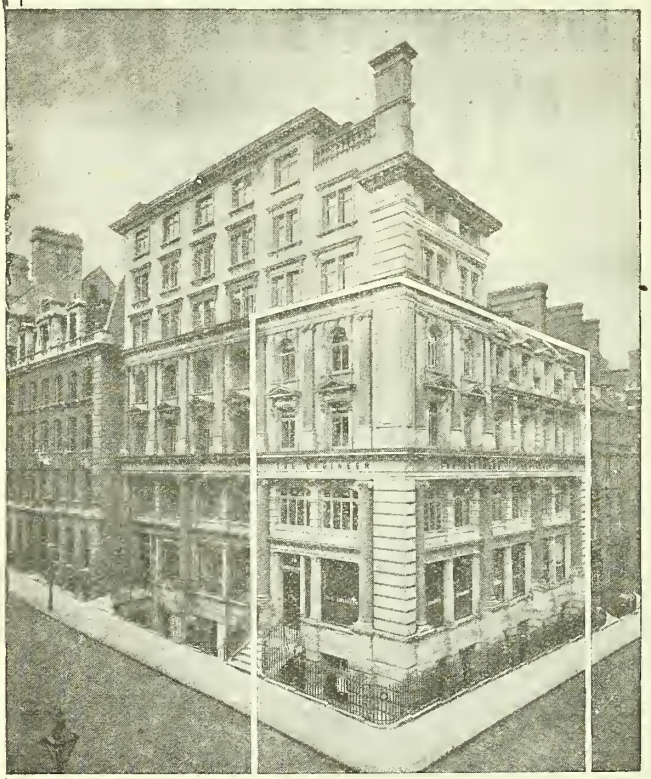
Post your Order TO-DAY for

LUTON	STRAW HAT DYES	Standard size.	Price 12/- per doz. Retail 1/4 per bottle
		Small size.	Price 7/6 per doz. Retail 10d. per bottle
AURORAL	COLD WATER DYES	Price 4/- per doz.	Retail 6d. per packet
WINNER	HOME DYES	Price 2/- per doz.	Retail 3d. per tube
WINNER	STOCKING DYES	Price 2/- per doz.	Retail 3d. per tube
VELT	HOME DRY CLEANER	Price 8/- per doz.	Retail 1/- per bottle

Take advantage of these Special Discounts!

5% for Cash in 7 days on all Orders. 2½% plus the 5% for Cash in 7 days on £4 Parcels.
5% plus the 5% for Cash in 7 days on £8 Parcels.

WHITAKER & CO. (KENDAL) LTD. Dye Specialists, KENDAL, ENG.



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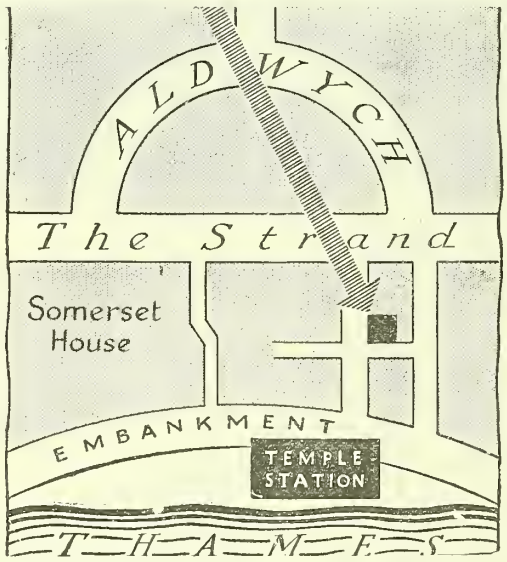
Five Stories and Basement, Main and Goods Entrance, Electric Lift, Strong Rooms, House Telephone Installation throughout. The whole in first-class condition.



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The Secretary,

MORGAN BROS. (Publishers) LTD.

28 Essex Street, Strand, London, W.C.2

THE 1932 CHEMISTS' EXHIBITION MAY 23-27

will be held

in the New Hall of the ROYAL HORTICULTURAL SOCIETY, WESTMINSTER, LONDON, S.W.

An Exhibition View.

Organisers: THE BRITISH AND COLONIAL DRUGGIST, LTD., 194-200, Bishopsgate, E.C.2.

PLEASE SEE OVER.

The Chemists' Exhibition

— a veritable British Pharmaceutical Fair. . . .

affords the only opportunity which the pharmacist has during the year of inspecting under one roof a full collection of practically everything in which he deals or which he uses in his business. Here he will find the displays of the leading houses set out in a manner which no traveller's show case or temporary apartment in an hotel can accommodate either in comprehensiveness or attraction. Here also he will discover new lines, the latest " packs," and will be able to pick up bargains that otherwise would probably never come to his knowledge. A day at the Exhibition is a day well spent, and no member of the craft who has his business interests at heart can afford to miss it!

"Good for the Exhibitor and the Pharmacist."

Mr. A. R. Melhuish, President of the Pharmaceutical Society of Great Britain, in opening the Exhibition on May 11th, 1931, said: " The Chemists' Exhibition was more necessary to-day than ever before. It was necessary for several reasons. First of all, there was the demand on the part of the public for more variety and a greater assortment, as well as a better display, of goods. Then, again, there was the increased spending power of the community which made it worth while for pharmacists to display their goods in the best possible manner. He believed that the Chemists' Exhibition was not only good for the exhibitors, but he believed it was good for pharmacists and pharmacy. To his mind the Exhibition filled a very real want, and served a very real purpose. It brought together the wholesaler, the manufacturer, and the retailer. There was much in the spirit of friendliness which was engendered by the Exhibition, and which would be carried into all parts of the country, for he was informed that there were representatives present from Ireland, Scotland, Wales, and from overseas."

Points of Interest.

It is a Trade Exhibition.

Important Conferences will be held by various official bodies connected with the craft.

Window displays with novel lighting effects, and competitions in connection therewith, are being arranged.

Every Retail Chemist in business in Great Britain and Ireland subscribing to the " British & Colonial Pharmacist," visiting the Exhibition, will be entitled to claim half of his Third Class Return Railway Fare, and, in cases where the return fare does not exceed 10/- the whole amount will be refunded.

Tickets will be sent to All Pharmacists in Great Britain and Ireland; also to Shippers, Exporters and Merchants.

A few positions are still available. Particulars of these, Prospectus and Plan will be sent on application.

Pharmacists and others interested, who do not receive admission tickets in due course, are asked to kindly communicate with the Organisers, when same will be forwarded.

THE BRITISH & COLONIAL DRUGGIST, LTD.,
194-200, Bishopsgate, E.C.2.

Telephone: Bishopsgate 2148. Telegrams: Pharmacist, Ave, London.

THE SPRING TONIC AND PURIFIER FOR WHICH THE PUBLIC ASKS

SULPHUR AND YEAST TABLET

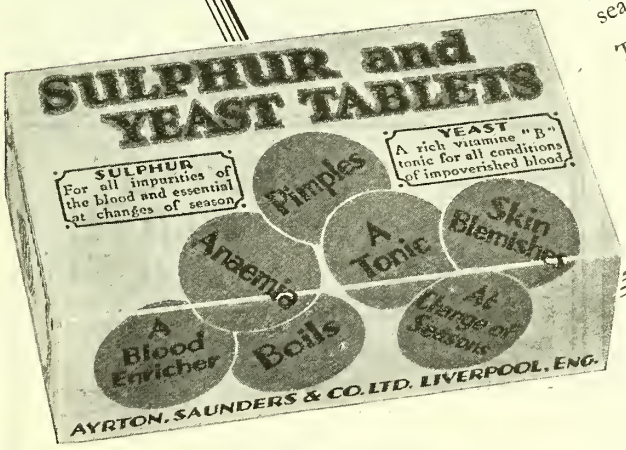
A Modern Spring Tonic and Purifier

THE Vitamin "B" content of Yeast and its tonic qualities combine so well with the purifying virtues of Sulphur that the combination found immediate favour on its introduction by Ayrton's, and quickly attracted copyists. Ayrton's finely produced article is particularly recommended for administering to those whose health receives a set-back at the change of seasons.

The best description of this smart introduction would be a complete 1-dozen display outer.

We shall be pleased to send one post free for 4/6 to any trading Chemist.

4/6



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Six dozen at **4/3**

Gross lots at **4/-**

One dozen bonus with gross lots.

AYRTON, SAUNDERS & Co. Ltd. LIVERPOOL, Eng.

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the original combined Cream and Powder

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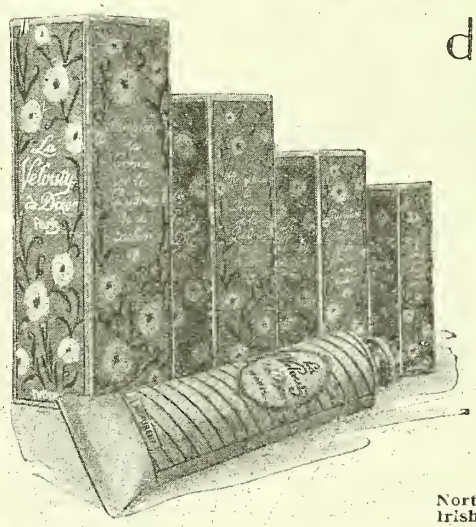

The advertised line that you are asked for.

NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES :—No. 1. Handbag tube	3/-	doz.	Retail	-/4½
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No. 3. Medium tube	7/-	,,	,,	1/-
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Pots - - -	21/-	,,	,,	2/9

Made in four shades :

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the Manufacturers :

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Sole Distributors for

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A large variety of exquisitely finished models—Nickel, Gilt, Silver, Enamel, Lacquer

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"ODENTIC" PLATE BRUSH

Regd. No. 417637.

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Packed in ½-dozen Display Boxes.

Manufacturers :

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A very smart and attractive pack in square gilt Tins and nicely labelled.

Supplied in

2 lb. size	-	14/6 doz.
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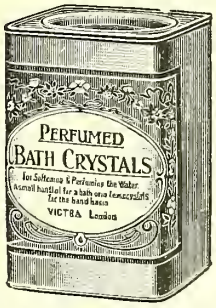

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A QUICK AND CONSTANT SELLER.

WILLIAM EDWARDS & SONS

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14-18 NILE STREET, CITY ROAD, LONDON.

For the Girl of Moderate Means

The Shadforth Beauty Course

Comprises a special medicated Sulphur Soap, a Complexion Tonic Lotion for use after washing, and the "Shadforth" Complexion Tonic Prescription in tablet form.

It quickly removes pimples, blackheads, or acne, roughness, redness, dull eyes, and sallow skin complexion, and gives the charm of youth.

It constitutes the world's best triplex beauty treatment, and is supplied with full directions. The Beauty Parlour price of similar treatment runs from 2 to 5 guineas. Ask for Shadforth Beauty Course No. 442/T. Prices: 3/9 and 6/-

TRADE TERMS ON APPLICATION

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Qualified Dispensing Chemists

63 Grove Road, Bow, London, E.3

Yes—*advertised month in and month out——— and it shows you*

83% PROFIT

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MANY SUCCESSES IN THE EXAMINATIONS

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PRACTICAL WORK. Personal tuition in the practical work is a distinctive feature. Students can avail themselves of the practical classes held during examination times when they are in London.

Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.); the National Association of Opticians (F.N.A.O.); or the College of Optics (F.C.O.).

Write for full particulars—

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50 HIGH STREET, BARNET, LONDON, N.

WESTMINSTER COLLEGE OF PHARMACY.

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PRELIMINARY SCIENTIFIC COURSE	£1 1 0
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POSTAL COURSE PROSPECTUS POST FREE from The Secretary,

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BUY BRITISH

The (National) British Government, Sept. 1931, said:

"In their expenditure it is hoped that everyone will be vigilant in making demands for BRITISH LABOUR AND PRODUCTS, so that we do not import one shilling's worth of goods more than is necessary."

HARROGATE BRITISH APERIENT WATER AQUAPERIA
(Medicinal)

Try HARROGATE SPARKLING TABLE WATER "FONTALIS" (slightly saline) **with your Whisky**

CAMWAL Ltd. Victory House, Swallow St., Piccadilly, W.1.

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BATTLE'S VERMIN KILLER

Of all Patent Medicine Houses at 3/-, 5/- and 9/- per dozen.

In packets at 5d., 9d. and 1/3 each. (P.A.T.A.)

The *sure* destructive agent which may be confidently recommended by Chemists for quick clearance of rats and mice. (*Users' testimonials on request.*)

Prepared only by

J. C. M. BATTLE, Ph.C., LINCOLN

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WEED KILLER & GARDEN NECESSITIES

Luda Weed Killer

EUREKA WORM KILLER
EUREKA LAWN SAND
EUREKA SOIL FUME
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Over 30 years' reputation. Eureka has the largest sale. Write now for Details of Special Window Display and Trade Terms.

TOMLINSON & HAYWARD LTD.
51, NEWLAND LINCOLN

REVELATION IN STORAGE OF EGGS

WONDERFULLY SIMPLE AND EFFICIENT

OTEG

EGG PRESERVATIVE

(Seals every pore)

STORE EGGS DRY IN BOX AT HOME FOR TEN MONTHS, FOR BOILING & ALL PURPOSES

Consider **Oteg** before stocking others. Users demand it, it's so efficient & convenient. Sealed all the time, in store, transit, or shipment.
No trouble, no preparation, no pails of chemicals. Quart of **Oteg** seals over 1,000 eggs. **DIP** eggs into thin liquid, with wire tongs provided. **DRY** for half an hour, **STORE** in box.
Sealed tins with dipper for 250 eggs 2/8 ; 500 4/9 ; 1,000 7/9
Cartons containing sealed tin, wire tongs, booklet.

GENEROUS TRADE TERMS—EASY SALES
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Stocks sealed and Good For Two Seasons
ATTRACTIVE ADVERTISING MATTER

SOZOL (1924) LIMITED
20 COPTHALL AVENUE, LONDON, E.C.2

— Thousands of tins sold last season. —
HUNDREDS OF THOUSANDS FOR 1932

BACK THESE GOODS

Ovaltine
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These lines will be strongly advertised in the "Sunday Pictorial" during this month. Nearly two million worth-while families throughout Great Britain will be influenced. Reap the maximum benefits by displaying these lines. A big demand always follows advertising in the

SUNDAY PICTORIAL

PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.
And All Other Grades To Suit Every Purpose.
CHEMICALS FOR ALL INDUSTRIES.

Phone: Mansion House 7300. Tel. Add.: "Levermore, Phone, London."
A. LEVERMORE & CO. LTD. ABC Codes,
110 CANNON STREET, LONDON, E.C.4. 5th & 6th Editions.

BIGGER PROFITS
WHEN YOU SELL
SOUPLEX
6 for 1/-
92% Profit

Order through usual wholesaler or direct from
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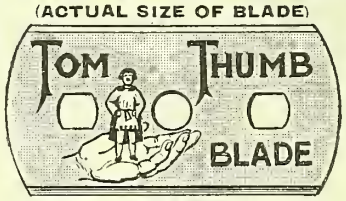
ENGLAND'S LAST WORD
IN SAFETY RAZOR BLADES
THE GREAT "TOM THUMB"
(ACTUAL SIZE OF BLADE)

Retails at 1d. each



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Brooks, Haywood & Co. Ltd., Shiloh Works, Sheffield

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10 & 11 MINCING LANE, LONDON, E.C.3.
TEL.: ROYAL 5094.
GUMS, ARABIC and TRAGACANTH as Imported or Finely Powdered. :: SHELLACS ALL GRADES.

PHOSPHATE OF SODA, Pure
For Food Purposes
ASK FOR SAMPLE AND PRICES
PERRY & HOPE, LTD.
Ferth and Clyde Chemical Works, NITSHILL.
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SHOPFITTINGS & DISPLAY
By A. Edward Hammond. A practical book giving informative descriptions and helpful suggestions on the use of modern shop-fittings. It provides the retailer with invaluable guidance on modern methods of increasing sales through effective display. Profusely illustrated. 142 pp. 5/- net. Of a bookseller or direct from
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SHADEINE
FOR TINTING GREY HAIR
This popular article is largely advertised and stocked by all Wholesale Houses.

Trial size 8d. per doz.	6/-
1/4 size, per doz.	12/-
2/6 size, per doz.	24/-
3/9 size, per doz.	36/-

The SHADEINE Co., 58 Westbourne Grove, London, W.2

THE "SAFEGUARD"
BRAND OF RUBBER GOODS
Are SUPPLIED to CHEMISTS & DRUGGISTS ONLY
FINEST QUALITY. HYGIENIC PACKING
Write for Samples and Prices.
BURGE, WARREN & RIDGLEY, LTD.
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Phone: Holborn 0050. *Telegrams*: Drugsund, Smith, London.

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Any Colours
"Flat as a Board" Yet
NO BOX MIRRORS
Brilliant at all angles
NOT A DUST TRAP
Can also be adapted for — Box Electric Signs
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Single Signs SECURE SALES
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4/6 to 47/6
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EVERY BOOK by an EXPERT
May be obtained at the published prices from any Wholesale Drug or Sundries House, or from
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BRANCH OFFICES: Manchester and Sheffield, England; Glasgow, Scotland; Melbourne and Sydney, Australia; Auckland, New Zealand.

40,000,000 POTENTIAL BUYERS

DR. I. BROOK'S (Brand) COMPOUND GLAUBER SALTS TABLETS

Ingredients:

Sodii Sulph. Exsicc.–Phenolphthalein–Potassii Iodid.–Zingiber–Kaolin

FOR **CONSTIPATION LUMBAGO BILIOUSNESS RHEUMATISM GOUT FLATULENCE SLIMMING HEADACHES INDIGESTION SCIATICA NEURALGIA HIGH BLOOD PRESSURE**

THEY SELL ON SIGHT. SUPPORTED BY ADVERTISEMENTS IN THE DAILY PRESS. DO NOT LOSE BUSINESS!!

Supplied in attractive 2-colour Inners and Outers. "Selling" show cards and advertising material free.

7½d. size — to the Trade 5/- per doz.
1/3 ,, ,, ,, 10/- ,, ,,

BONUS: For Orders of not less than 3 doz.—one extra Bottle to each dozen.

Stocked in LONDON by
BARCLAY & SONS
BROOKS & WARBURTON, LTD.
BUTLER & CRISPE.
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And all leading Wholesalers in the Provinces

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'Phone: Victoria 2414 (2 lines). *Telegrams:* Westlabora, London.

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A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3

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EXTRA HIGH VISCOSITY HOLROYD'S OIL & CERESINE CO., LTD.
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THE "REGULATOR" DROP BOTTLE

Square Amber Bottle fitted with Suction Top, I.R. Cork and Glass Pipette

	¼	½	1	2 oz.	
	4/-	4/3	4/10	5/3	per doz.
3 Gross lots	42/-	43/-	52/-	54/-	per gross

FOR WHOLESALE TRADE ONLY

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KEST BRAND COMPOUND EPSOM SALTS TABLETS

have made a **HIT!**

OVER 7,000,000 PEOPLE
ARE SEEING
"**KEST**" ADVERTISING

Trade Terms

3d. size, in cartons 2/3 per doz.
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1 gross 6d. size or equivalent, less 10%
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5 gross 6d. size or equivalent, less 15%
Carriage paid 6 dozen.

SPECIAL INTRODUCTORY OFFER
To Messrs. FASSETT & JOHNSON, Ltd.
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Please supply
...doz. 3d. size "Kest"
...doz. 6d. size "Kest"
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} 6 doz. at the rate of 4s. per doz. bots. less 12½%
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Signed .....

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By means of direct "MAKERS' TERMS" PARCELS MEANS MORE PROFIT!

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PROPRIETARY
SPECIAL PARCELS
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CHARTERHOUSE SQUARE, LONDON, E.C.1
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WE SUPPLY
DECORATED TINS
FOR PACKING
OINTMENTS
AND OTHER PRODUCTS.

SAMPLES AND PRICES UPON REQUEST.

THE CALDICOT TIN STAMPING WORKS LTD.
CALDICOT, Nr. CHEPSTOW, Mon.

NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessaries from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

OSCAR SCRUTON & CO., YORK

Potter & Clarke

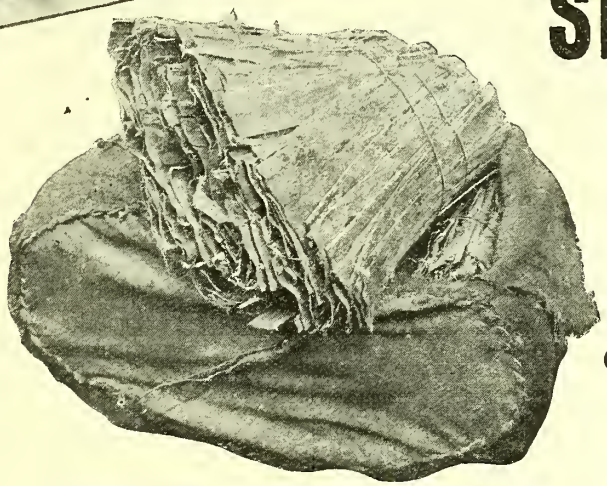
LIMITED

SLIPPERY ELM BARK

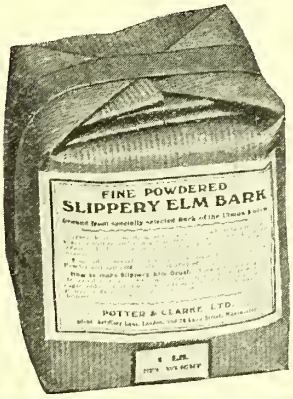
(ULMUS FULVA)

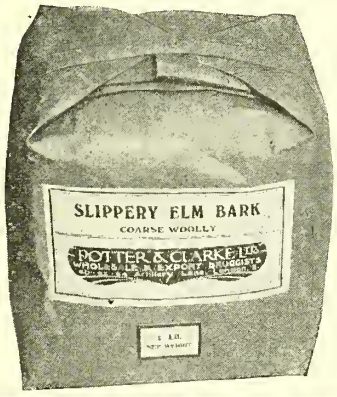
AND

ALL GRADES OF POWDER GROUND IN OUR OWN MILLS



An original bale of finest slab Slippery Elm





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'Phones: Bishopsgate 4761 (5 LINES). Grams: Horehound, 'Phone, London.

60-64 ARTILLERY LANE, LONDON, E.1.

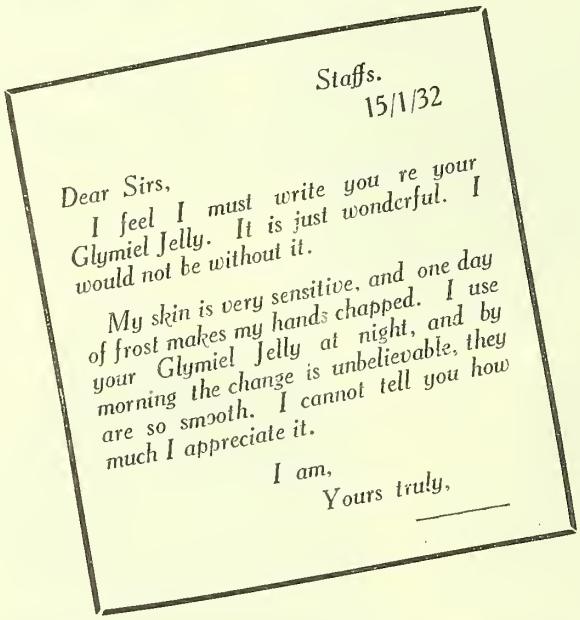
MANCHESTER: 24 Luna St., Gt. ANCOATS.

"Glymiel" Jelly

ADVERTISEMENTS are now appearing regularly in WEEKLY AND MONTHLY PERIODICALS, LONDON DAILY PAPERS AND PROVINCIAL EVENING PAPERS, and are impressing over

2,000,000

POTENTIAL CUSTOMERS resulting in letters like this


Staffs.
15/1/32

Dear Sirs,
I feel I must write you re your Glymiel Jelly. It is just wonderful. I would not be without it.

My skin is very sensitive, and one day of frost makes my hands chapped. I use your Glymiel Jelly at night, and by morning the change is unbelievable, they are so smooth. I cannot tell you how much I appreciate it.

I am,
Yours truly,

OSBORNE, BAUER & CHEESEMAN

SOLE AGENTS:

SANGERS LTD.

258 EUSTON ROAD :: :: LONDON, N.W.1

When selling an atomiser, assure your customer's satisfaction by recommending the

'PAROLEINE' ATOMISER

(Trade Mark)

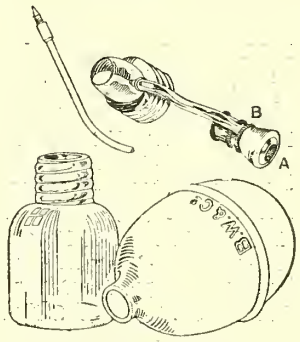
Simple in construction **Easily sterilised**

Produces a finely-divided spray, which secures an effective and evenly-distributed application of the medicaments.

Amongst Other Distinct Advantages are:—

(A) Wire gauze sieve to prevent entry of dust, etc.

(B) Rubber washer to prevent leakage of air and minimise wear on bulb; thus a large volume of fluid is nebulised and futile attempts at spraying obviated.



Reduced facsimile

'PAROLEINE' ATOMISER
6/- *each*

For use with the Atomiser

TRADE 'PAROLEINE' MARK SPRAY COMPOUND

Menthol,	*gr.* 5
Chlorbutol,	*gr.* 6
'Eucalyptia,'	*min.* 15
'Paroleine' Liquid Paraffin	*to fl. oz.* 1

Bottles of 1 *fl. oz. and* 16 *fl. oz. at* 12/- *and* 96/- *per doz. respectively*

TRADE MARK 'VAPOROLE' BRAND EPHEDRINE SPRAY COMPOUND

Ephedrine, 1 *per cent.*
Menthol
Camphor
Oil of Thyme, of each 2 *per cent. in 'Paroleine' Liquid Paraffin*

Bottles of 1 *fl. oz.,* 27/- *per doz.*

Prices quoted are those in London to the Trade (subject)

The above products are now in seasonal demand and are kept well before the Medical Profession. See that your stocks are adequate

BURROUGHS WELLCOME & CO., LONDON

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THE BRITISH DRUG HOUSES
LIMITED

"PEPTET" BRAND DYSPEPSIA TABLETS

THESE popular tablets (known for many years by the name "Pep-Trochettes") are recommended as an efficient and reputable product, which sells readily and yields a satisfying profit to the pharmacist.

The exhibition of the neat counter card shown in the illustration entitles the retailer to special "Display terms," particulars of which will be sent on request.

Issued in cartoned bottles of 40 tablets.

One dozen bottles are packed in an attractive display outer.

P.A.T.A. Prices

Retail **1/-**

Wholesale **7/6** per doz.

The following tablets are packed in a similar manner :—

Formamints

Iodised Throat

Bismuthated Magnesia

GRAHAM STREET, CITY ROAD, LONDON N.1

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A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

The official organ of The Pharmaceutical Society of Ireland, The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions

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19 WATERLOO STREET, GLASGOW (TEL.: CENTRAL 2329)
54 FOSTER'S BUILDINGS, HIGH STREET, SHEFFIELD (TEL.: 22458)
99 QUEEN STREET, MELBOURNE, AUSTRALIA

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News of the Week

Dangerous Drugs Act, 1932

The Royal assent was given to the Dangerous Drugs Act, 1932, on March 24.

Disinfectants Mentioned in Parliament

Captain Elliston asked the Home Secretary in the House of Commons, on March 24, whether he is aware that as a result of the provisions of the poisons schedule, which restricts the sale of full-strength disinfectants to registered chemists, the public are being put off with low-grade disinfectants bought at small stores and shops; and whether he will take steps to allow such establishments to sell efficient disinfectants.

Sir H. Samuel: This matter was dealt with in the report of the Departmental Committee on the Poisons and Pharmacy Acts, which reported two years ago, and in this Bill, based upon the recommendations in that report, which was introduced last year. The question of introducing the Bill again next session will be considered in due course.

Contracts

The following tenders have been accepted by the bodies named:—

Barnstaple Public Assistance Committee.—Mr. E. W. Proudman, chemist and druggist, drugs, etc.

Hertford and Ware Joint Hospital Board.—Arthur J. Sheffield, chemist, sundries.

Isle of Wight Public Assistance Committee.—Boots, Ltd., drugs, etc.

Slough Urban Council.—Taylor's Cash Chemists (London), Ltd., drugs, etc.

Worcester Public Assistance Committee.—Anderson & Virgo, chemists, drugs.

Sheffield

A scheme is being evolved for supplies of oxygen to be available in all parts of the city at other than ordinary business hours.

In several city businesses (not chemists') articles are being sold at less than the protected prices, but it is difficult to trace the sources of supply.

George Squire, Ltd., chemists, are holding a "removal sale" prior to opening their new pharmacy in King Street. The Haymarket business has been established for over a century.

The new scheme of Public Assistance dispensing by chemists for 1931 resulted in 66,383 prescriptions being dealt with at a cost of £2,038. The pricing by the North-East Midland Bureau from January to November shows a high state of efficiency, there being only 0.028 per cent. of "errors."

Miscellaneous

LONG-SERVICE AWARDS.—At the recent annual dinner of the Works Council of Imperial Chemical Industries, Ltd., held at Billingham, long-service awards were presented to thirty-two employees of the company.

CRICKET.—Anyone connected with pharmacy who has enthusiasm for cricket is invited to attend at Birmingham Chamber of Commerce on April 4, at 9 p.m., or to communicate with Mr. H. Marsh, 24 Sherwood Road, Bearwood.

LONDON VAN HORSE PARADE AWARD.—At the annual parade of the London Van Horse Parade Society, held in Regent's Park on Easter Monday, Burroughs Wellcome & Co.'s entry was awarded a first prize, making the thirteenth in succession.

D D

BURGLARY.—On March 26 thieves broke into the strong room of Gale & Co., Ltd., manufacturing chemists, Bouverie Street, London E.C.4, cutting their way through a substantial concrete wall. A safe was forced open and about £160 was stolen.

IN THE COURTS.—At Alton, Hants, on March 22, Trimming & Co., Ltd., chemists, were fined 20s. for failing to pay unemployment insurance contributions in respect of an employee. The defending solicitor explained that the case was merely one of oversight.—At Thames Police Court, London, on March 29, Sebastian Gomez, a cook, was fined £10 for being in unauthorised possession of Indian hemp.

Irish Notes

Brevities

Mr. Wm. Gallagher, Ph.C., is opening a pharmacy at 2 North Strand Road, Dublin.

Sympathetic references were made at the opening of the Sligo Festival to the death of Mrs. Cagney, who was one of the principal organisers of this Western Irish musical festival. Mrs. Cagney was the wife of Mr. Patrick Cagney, L.P.S.I., Sligo.

In a letter which appeared in the Dublin Press recently the writer suggests "a licence of £20 annually to sell patent medicines and drugs where no chemist or druggist resides, but no licence to be granted when a chemist or druggist is present."

At the annual meeting of the Belfast Wholesale Merchants' and Manufacturers' Association, on March 23, Mr. Fred Storey (president of the Chemists' and Druggists' Society of Ireland) was elected a vice-president of the Association. Sir Thomas McMullan, Mr. A. Gamble (Shaw & Jamison, Ltd.), Mr. G. Wilson (Jordan, Wilson & Alexander, Ltd.) and Mr. H. R. Haslett (J. & J. Haslett, Ltd.) were elected to the general committee. Mr. Haslett (the outgoing president) was heartily thanked for his services during the year.

The annual meeting of the Dublin Branch of the Photographic Dealers' Association was held recently, Mr. John Smith, Ph.C., in the chair. It was decided to ask the assistance of the manufacturers to help in making attractive window displays of cameras, films and photographic goods generally. Complaint was made by some members of the growing practice of doing developing and printing work below fixed prices. The Branch decided to give its attention to the matter. It was decided also to hold a "Camera Fortnight" in the city during the period of the Eucharistic Congress.

Festivities

Leeds Social Evening

THE second "Frivolity Night" of the present session of the Leeds Branches of the Pharmaceutical Society and the Retail Pharmacists' Union took place on March 16, in the form of a whist drive, supper and dance. The M.C. for whist was Mr. G. F. Kemp, and for dancing Mr. G. H. Haw. Messrs. H. Gilleghan, A. W. Lupton, R. Swaits (treasurer), T. Shooter, and others assisted as stewards. The function was excellently organised by Mr. G. C. Crummack (secretary) and a committee, and was thoroughly enjoyed.

Newport Function

A WHIST DRIVE and dance was held by members of the Newport and Monmouthshire Chemists' Association on March 17. Interest was aroused by a guessing competition for a mystery prize; no guess being correct, the prize, a gold and amethyst ring, was won by Miss Hague (Rumney) in a film star dance. The prize-winners for spot and other dances were Dr. Sylvia Smith, Mrs. Jenkins, Miss Jones and Miss Howard. The winners at whist were Mrs Hague (Rumney), Mrs. Murray (Cardiff), Mr. Rowlands and Mr. Charles Wilson. The following Committee was responsible for the arrangements:—Messrs. Jared Edwards (president), B. Thomas (vice-president), W. Ben Evans, T. J. Badgett, F. E. S. Clarke, C. C. Giles, E. T. Card, S. W. Hague, G. A. Bolton and J. C. W. Evans (secretary). The M.C.s for the dance were Messrs. C. C. Giles and G. A. Bolton and Mr. E. T. Card was M.C. for whist.

A South Coast Function

THE fifth annual dinner of the Hastings, St. Leonards, Bexhill and District Branch of the Pharmaceutical Society was held at the Queen's Hotel, Hastings, on March 2, Mr. G. S. Perrett in the chair. The company included Mr. E. Saville Peck (a member of the Society's Council), the Mayor of Hastings, Mr. H. C. Browne (chairman of the Eastbourne and District Branch) and Mrs. Browne, Mr. J. Hearle (vice-president of the North London Association), Dr. Nesbitt Wood, Dr. C. Nesbitt Wood, Dr. E. Wood, Mr. H. M. Thompson (toast master) and Mrs. Thompson, and Mr. Marchant (secretary). The toast of "The Pharmaceutical Society of Great Britain" was proposed by the chairman. Mr. E. Saville Peck, in reply, referred to the Pharmacy and Poisons Bill. The Council, he said, had that afternoon passed a resolution withdrawing its opposition and giving such assistance to the passing of the Bill as may be open to it, providing that the agreed amendment to clause seventeen was inserted. The Society would go ahead with its research work and education. In proposing the toast of "The Mayor, Ladies and Visitors," Mr. E. W. Skyrme referred to the toast as a mixture in which the Mayor was the principal ingredient. The Mayor replied. Dancing followed.

Business Changes

MR. D. E. JONES, chemist and druggist, has opened a pharmacy in Northgate Street, Aberystwyth.

MR. HAROLD E. M. EVANS, chemist and druggist, is opening a pharmacy at 126 Abergele Road, Colwyn Bay.

MR. W. E. LLOYD HIVES, chemist and druggist, has opened a pharmacy at 41 Knight's Hill, Norwood, London, S.E.27.

MR. J. H. BUCKLEY, chemist and druggist, has opened the Broad Oak Pharmacy, Broad Oak Road, Ashton-under-Lyne.

THE new address of the Allan Manufacturing Co., Ltd. (Sunglo signs), is 37 Farringdon Street, London, E.C.4. Telephone: Central 8773.

HIRST BROOKE & HIRST, LTD., manufacturing chemists, Millgarth Mills, Leeds, inform us that they opened their new model factory and offices, Sheepscar Works, Leeds, on March 30.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc. occur.

Wednesday, April 6

Liverpool Chemists' Association and Branch of the Pharmaceutical Society, Royal Institution, Colquitt Street, at 8 p.m. Mr. E. C. Cripps on "Welfare Centres: Their Use and Abuse."

Thursday, April 7

Manchester Pharmaceutical Association, Council Chamber, Houldsworth Hall, Deansgate. Annual meeting.

Friday, April 8

Edinburgh Chemists', Assistants' and Apprentices' Association, 36 York Place, at 8 p.m. Business meeting. Discussion on "Unemployment in Pharmacy."

Digitalis Grown in Kashmir

By H. L. Wright

SOME seven years ago, investigations carried out at the School of Tropical Medicine, Calcutta, clearly demonstrated that tinctures of digitalis, even when manufactured by the most reliable firms, are, when imported into India, affected by the climate, and lose from 20 to 40 per cent. of their potency within a very short period. [And yet, in a paper presented at the British Pharmaceutical Conference meeting at Manchester last July (*C. & D.*, 1931, II, 119), it was mentioned that tinctures of digitalis prepared in India from leaf sent out there had a potency of 200 per cent. or near that figure, when assayed by the cat method.—EDITOR.] The importance of being able to obtain freshly prepared tincture from local manufacturers was obvious, but the difficulty was to obtain a sufficient and regular supply of Indian-grown leaves. Nowhere in India does digitalis grow indigenously, though for many years efforts have been made to grow it. Further investigations were therefore carried out at the School of Tropical Medicine into the quality of the Indian-grown leaves, and it was shown that those obtained from garden plants growing in Kashmir were markedly the best, and were, in fact, as good as the best imported from Europe. The excellence of the Kashmir leaves having been demonstrated, the State Forest Department decided to experiment on a commercial scale. A start was made in 1926, but was limited by the small quantity of seed available. A nursery was laid down at Tangmarg, at about 7,000 feet elevation, and proved very successful. From 1928 onwards ample seed was available, and cultivation has been extended to various parts of the Kashmir valley.

The climate of Kashmir appears to be admirably suitable for the growth of digitalis, for it can be grown in any suitable locality at an elevation between 5,000 and 7,000 feet. It requires good soil and prefers a light overhead shade. Cutting back the flower shoot appears to stimulate leaf production, so only those plants are allowed to flower which are required for seed. Plucking commences just before flowering, and continues at intervals all through the summer, the last plucking being in the late autumn. The leaves from first year plants are not ordinarily gathered, though they have the same glucosidal content as those of the second year. In Kashmir it is possible to dry the leaves without the aid of an oven, which is a distinct advantage, as oven-drying has been shown to cause marked deterioration, especially if the temperature is allowed to run high. After drying, the leaves are sent to the Forest Department's central minor products godowns, where they are carefully cleaned and packed in wooden boxes for export. The annual demand for digitalis leaves in India is said to be about five tons, and if present progress continues there appears to be every hope of Kashmir being able to meet the greater part of this demand within the next few years.

Topical Reflections

By Xrayser

Mr. Neathercoat's Review

of the situation, in which he conveys his views on the decision of the Council of the Pharmaceutical Society to support the Government Pharmacy and Poisons Bill if resuscitated (*C. & D.*, March 26, p. 344), is worthy of much more than passing attention, if only because of the share he took in the deliberations of the Departmental Committee, of which the Bill was the direct outcome. He takes the broad view, a very broad view, of the potentialities of the measure; and I think it must be admitted, however reluctantly, that the case he presents in his concluding paragraphs, where he glances into the future, tends to predispose one to acceptance of the Council's decision as being fully justified in all the circumstances. It is now made more clear, by Mr. Neathercoat's statement, upon what the Council's policy is based.

Full of Misgivings,

Mr. Neathercoat tells us, he finds himself with regard to the bearing upon the position of pharmacy as a business of the results of certain recent decisions in the Courts. Those misgivings, I am bound to admit, are shared by myself, as I feel there is little prospect of their being reversed, or of being remedied except by legislative action, and it seems absurd to think of resort to Parliament being other than futile so long as we lack the support or approval of the Government departments which are interested in our affairs. History records how progress in pharmaceutical development was delayed by disinclination to agree to any modification of the so-called "widows' clause," and again by refusal to adopt poison regulations. Positive harm to our craft resulted from those delays, and the mischief ensuing is likely to be permanently manifest. If similar mischief be threatened by non-acceptance of the Pharmacy and Poisons Bill, should it be reintroduced, we need to think twice before condemning the Council of the Pharmaceutical Society for deciding not to oppose it further. Let us think of the risks incurred by longer uncontrolled use of the word "pharmacy" as a place name, by increase in the labelling of disinfectants as preparations useful for agricultural and horticultural purposes, by extended use of automatic machines for the sale of poisons, and by continued acceptance of the latest interpretation of what is meant by "keeping open shop."

Vitamin Existence

is still a doubtful point to a number of people, but it is significant how references to vitamins tend to permeate one section after another of the excellent abstracts included in your quarterly "Progress of Pharmacy and Allied Sciences." In the latest collection of these abstracts I find mention of vitamins under the respective headings of biological chemistry, dentistry, materia medica and medicine. Moreover, such information is given respecting the chemical nature of the more important vitamins as should tend to remove any lurking doubt regarding the fact that these substances are definite entities. Vitamin A is shown to be an alcohol, vitamin D is apparently a sterol, and vitamin C seems to be closely allied to narcotine. It is instructive to find that substances which have been classed together in a single group as accessory food factors prove to differ so materially from one another in their chemical composition. Progress in vitamin research is rapid nowadays, but it is noteworthy that all we know about the accessory food factors has been learned during a period of little more than twenty years. As far back as 1881 there was an investigator (Lunin) who concluded from certain observed facts that other substances indispensable for nutrition must be present in milk besides casein, lactose, fats and salts; but the first actual discovery of such a substance was not made until 1912, when Hopkins published the records of his historic research.

South African News

"Exchange" Dumping Duty

Section 15 of the Tariff Act, as recently amended, authorises the imposition of "exchange" dumping duties on goods of a class or kind manufactured or produced in the Union of South Africa, imported from countries whose currencies are depreciated in relation to Union currency, and by reason of such depreciation are being exported to the Union at prices which are detrimental to an industry in the Union. The duty in question is to be "equal to the difference between the f.o.b. cost at the port of shipment of such goods to the importer in the Union currency on the one hand, and such cost expressed in the currency of the country of origin or export of such goods computed in terms of Union currency at the rate determined by the Minister on the other hand." Among the goods in respect of which the exchange dumping duty will be collected are the following. Foreign goods exported from the United Kingdom are liable to the duty:—

Oils, vegetable or animal, not elsewhere enumerated, and cod-liver oil. Paints and colours (other than artists' colours and dry pigments not elsewhere enumerated). Polishes: Floor, furniture, leather, metal and similar polishes and dressings, including blacking, but not French polish. Soap, soap powder and extracts. Tallow, including oleine. Waxes and greases. Acetate of lead. Distilled glycerin. Nitrate of lead. Sodium carbonate, including soda crystals (washing soda). (Note: The above, imported for use in the glass manufacturing industry and in the wool washing industry, under special conditions, are exempt.) Arsenite of soda.

Pharmaceutical Conference

The annual Conference of the Associated Pharmaceutical Societies of South Africa is to be held in Pietermaritzburg on March 28, 29 and 30. It will be the first time that the Conference has been held in the Natal capital. The delegates are:—*Cape:* Messrs. A. Purnell, W. Clancy, R. Mellon; *Transvaal:* D. A. Jacobson, H. L. Karnovsky, J. S. Ferguson and S. D. Smith; *Natal:* H. R. Hudson, D. S. B. Anderson, D. Adams, H. Groves and C. Whysall; *East London:* H. J. McJanet and J. G. Batting. The president will be Mr. H. R. Hudson, Ph.C. The mayor of the city, Mr. P. H. Taylor, O.B.E., will open the Conference in the Supper Room, City Hall. The papers to be read include:—"The Principal Changes in the new British Pharmacopœia, Published this Year," by Mr. H. R. Hudson; "Drugs and their Uses in Veterinary Practice in South Africa," by Mr. A. S. Canham, F.R.C.V.S.; "Some Pharmaceutical Research," by Mr. W. B. Marshall. In addition to the business of the Conference, the Pietermaritzburg and Northern Natal Chemists' Association have arranged an interesting programme of entertainment.

Natal

At the Durban Magistrate's Court, on February 23, Mr. James W. Seneque, chemist and druggist, Mayville, Durban, was charged with practising as a medical man without authority. The Crown alleged that defendant charged 30s. for attending two sick Indian women, and that he had told their relatives his charge was 10s. for each examination and 10s. for medicine. Mr. J. W. Seneque said he had been in business in Durban since 1913. He made a difference when people approached him during or after business hours. His closing hour at Mayville was 8 p.m. Chemists generally charged extra for night service, and as he was detained late on the night in question he did so. On August 1 certain Indians asked him to see their grandmother after 8 p.m. He advised them to see a doctor, and they replied that it was late, and they wanted medicine for her that night. He went with them and saw the grandmother. He felt her pulse, but denied examining her chest. The two Indians called him into another room to see a younger woman, and said they wanted fever medicine for her. Here again he denied examining the chest. On each occasion he used a thermometer, and felt the patient's pulse. He and the two Indians returned to his shop, reaching there at 9.30 p.m., and he made up three bottles of medicine, a mixture and a liniment for one woman and a mixture for the other. The idea was to relieve them for the night; they could see a doctor the next day. His day charge for the liniment and mixture would have been 9s. and 5s. 6d. for the second mixture. He was entitled to charge extra for service after hours, and as this was very late he charged £1 10s. The Magistrate, in his judgment, pointed out that the affair took place a long time ago, and it might be that the two witnesses for the Crown were confusing the examination of the patients' chests with what they had seen doctors do. The accused denied emphatically that he made any charge for treatment or for examinations. In this case he appeared to have put himself to a good deal of extra trouble to satisfy himself that that fever did exist in these cases. "It seems to me only reasonable that he should have acted as he did," said the Magistrate, "and he should have been allowed to charge the fees he did for the services he rendered. The accused did not in the legal sense treat these people or prescribe for them. The amount he charged was the amount he was legally entitled to charge under the circumstances. Mr. Seneque was found not guilty and discharged.

Transvaal

Mr. F. L. Peel, P.O. Box 3381, Johannesburg, has been elected secretary of the Pharmaceutical Society of the Transvaal in succession to Mr. Cohen.

Mr. B. A. Jacobson, chemist and druggist, Boksburg, who has been elected president of the Transvaal Pharmaceutical Society, is only thirty years of age. He passed the Qualifying examination of the Pharmaceutical Society of Great Britain in 1923, and before returning to South Africa gained further experience in England and on the Continent. Mr. Jacobson returned to South Africa eight years ago, and settled in Boksburg. After managing the business of the Boksburg Pharmacy for three years he became the proprietor, and later opened a branch at Boksburg North. He has been a member of the executive of the Pharmaceutical Society of the Transvaal for seven years and has been elected as a Transvaal representative for the past five years to attend the annual conferences of the Associated Pharmaceutical Societies of South Africa. He has held the position of chairman of the Transvaal Chemists' and Druggists' Association, and is a Council member of the South African Optical Association, of which he was a foundation member.

Brevities

Mr. John Edwards, son of Mr. Frank Edwards, chemist and druggist, Cardiff, has been appointed secretary of the Memorial Hospital, Gwelo, Southern Rhodesia.

Mr. J. G. Batting has been appointed secretary of the Eastern Districts Pharmaceutical Association in succession to Mr. P. B. Preston, who has held that office for the past four years.

Di-Miska preparations.—Hill & Murray (Pty.), Ltd., 34 Standard Bank Chambers, Johannesburg, have been appointed the distributors for the products of Di-Miska Laboratories (Warren Pharmacal Co., Ltd.), 5 New Bridge Street, London, E.C.4.

At a recent meeting of the Grand Lodge of Scotland the Grand Master Mason conferred the Honorary Grand Rank of "Grand Marshall" on Wor. Bro. Francis Carter, P.M., P.Z., P.S.D.G. Deacon, D.G.L. Transvaal S.C. Wor. Bro. F. Carter is treasurer of the "Thistle Lodge," No. 942, Bloemfontein, Orange Free State.

Legal Reports

Sweet Spirit of Nitre.—At Cork District Court, recently, Mr. D. B. Sullivan, B.L., District Justice, delivered his reserved decision in the case in which Helena Rose Hay, Ph.C., College Road, was summoned for having sold sweet spirit of nitre certified to be deficient to the extent of 25 per cent. in ethyl nitrate (*C. & D.*, March 19, p. 312). The justice said the question of the warranty did not become material, because he thought that when the drug was bought from the makers it was up to standard. The drug must have lost some strength between the time it was bought by the defendant and the time when the analysis was made. During the time the defendant had the drug in her possession it was kept in the recognised bottle, and this bottle was rarely opened. It was not possible to suggest any reason why the drug should not be up to strength. Several objections had been made to the manner in which the sample was taken. It was possible that the drug lost some of its strength while being analysed, and he thought the defendant was entitled to a dismissal. £3 3s. costs were allowed to the defendant.—In a similar case against Mr. Michael McManus, Ph.C., 27 Washington Street, in which the allegation was that the sample was deficient by 50 per cent. in ethyl nitrate, the justice found that the case was proved, but that the defendant was entitled to a dismissal.

New Companies
and Company News

P.C. means Private Company and R.O. Registered Office.

Vet Remedies, Ltd. (P.C.).—Capital £100. Objects: To carry on the business of manufacturing chemists and druggists, dealers in proprietary articles, etc.

McConnell & Madill, Ltd. (P.C.).—Registered in Belfast. Capital £100. Objects: To carry on the business of chemists, druggists, etc. R.O.: 55 Church Street, Ballymena.

Edible Papers, Ltd. (P.C.).—Capital £5,000. Objects: To carry on the business of manufacturers of and dealers in wafer papers for medical or other purposes, etc. Solicitors: Lithgow & Pepper, 41 Wimpole Street, London. W.1.

A. C. Cossor & Son (Thermometers), Ltd. (P.C.).—Capital £20,000. Objects: To carry on the business of manufacturers of and dealers in scientific instruments, barometers, meteorological instruments, thermometers, surgical instruments, etc. R.O.: Accoson Works, Vale Road, Finsbury Park, N.4.

Adley, Tolkien & Co., Ltd. (P.C.).—Capital £6,000. Objects: To acquire the business of chemical manufacturers and merchants carried on by Adley, Tolkien & Co., Ltd., at Novas Chemical Works, Paterson Street, Blackburn, and to adopt an agreement with the said company and W. H. Marsden. Solicitor: T. Smeddles, Blackburn.

Ansells Dispensing Chemists, Ltd. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, photographic materials and optical instruments, etc., to adopt an agreement with L. F. Ansell and A. T. Eyles for the acquisition of the business of a chemist and druggist at 341 Stafford Road, Wallington, known as the Parade Pharmacy.

Electrified Utilities, Ltd. (P.C.).—Capital £5,000. Objects: To adopt an agreement with S. A. Pollock and to carry on the business of engineers, manufacturers of machinery and articles intended for the generation, storage and utilisation of electricity, chemists, manufacturers of materials and compounds for technical or scientific purposes, metallurgists, etc.

Inertol Co., Ltd. (P.C.).—Capital £2,000. Objects: To acquire the trade mark "Inertol" for chemical substances used in manufactures, and the other trade marks in connection with the business concerned in the goods for which it is registered, belonging to P. Lechler, of Stuttgart, Germany, and the business carried on by him in or with the U.K., to manufacture and deal in "Inertol" and chemical substances and compounds, paints, etc. Solicitors: Rehder & Higgs, 29 Mincing Lane, E.C.3.

Anglo-American Pharmaceutical Co., Ltd. (P.C.).—Capital £10,000. Objects: To acquire the business now carried on by the Anglo-American Pharmaceutical Co., Ltd. (in liquidation), and all or any of the assets and liabilities, and in particular the formulæ and full information as to the processes of manufacturing and the right to manufacture and deal in certain medicinal preparations, and to carry on the business of manufacturers and sellers of medicines and preparations, chemists, druggists, drysalters, etc. R.O.: 59 Dingwall Road, Croydon, Surrey.

The Coty Manufacturing Co., Ltd. (P.C.).—Nominal capital £50,000. Objects: To adopt an agreement with Coty Société Anonyme, of Suresnes, France, and to carry on the business of manufacturers of perfumery of all descriptions, scents and toilet requisites, chemists or druggists, etc. The first directors (to number not less than four nor more than ten) are: F. M. J. S. Coty, 31 Avenue Foch, Paris (director and chairman of Coty (England), Ltd.); R. Greilsamer, 21 Avenue Pierre Ier de Serbie, Paris (director and vice-chairman of Coty (England), Ltd.); C. C. Valli, 42 Crediton Hill, N.W.6 (managing director of Coty (England), Ltd.); E. L. Burgin, 3 Gray's Inn Place, W.C.1; A. Lavault, 20 Place Felix Faure, Paris; J. A. L. Polverelli, 7 Rue Guillaume, Lenor, Suresnes, Seine, France; L. A. R. Marais, 13 Boulevard de Versailles, Suresnes, France; A. Dubois, 115 Avenue Victor Hugo, Paris (16C). The five last named are all directors of Coty (England), Ltd. R.O.: Coty House, 3 Stratford Place, London, W.

P. H. Galloway, Ltd.—Report for the year ended December 31, 1931, shows the net profit after charging all expenses and depreciation was £25,147 2s. 1d., which, with the carry forward from the previous year, £6,695 8s. 4d., makes a total of £31,842 10s. 5d. Goodwill has been reduced by £6,828 13s. 10d. Dividends on cumulative preference shares absorbs £7,500, leaving a balance of £17,513 16s. 7d., which the directors recommend shall be allocated as follows: dividend at the rate of 10 per cent. on the ordinary shares, amounting to £12,000, and the balance of £5,513 16s. 7d. to be carried forward. The authorised and issued capital is made up of 100,000 7½ per cent. cumulative preference shares of £1 each, and 1,200,000 ordinary shares of 2s. each, giving a total capital of £220,000.

Private Arrangements

Thomas Wray, Tyne View, Lemington-on-Tyne, chemist and druggist.—At the recent meeting of the creditors the statement of affairs showed liabilities of £1,455 6s. 10d., of which £1,110 19s. 6d. was due to unsecured creditors and £344 7s. 4d. to a partly secured creditor. The total claim of the latter was £677 10s. 2d., but securities to the value of £333 2s. 10d. were held. There was also a fully secured creditor for £996 17s. 2d. The assets consisted of cash in hand, £47 13s.; stock, £465 8s.; fittings and utensils, £65; furniture, £64 12s.; life insurance policy, £51 15s.; and good book debts, £16 6s. 1d., making a total of £710 14s. 1d., and leaving a deficiency of £744 12s. 9d. It was stated that the debtor had been carrying on business for a number of years, and he attributed his present position to the falling off in the turnover owing to the acute depression in the district. In the absence of any offer it was decided that a deed of assignment should be executed to Mr. W. Patterson, C.A., Newcastle, with a committee. It was stated that there was every possibility of the business being sold as a going concern.

Retail Pharmacists' Union

Annual Meeting

THE eleventh annual meeting of the Retail Pharmacists' Union was held at 4 and 5 Queen Square, London, W.C.1, on March 22. Mr. W. H. Clubb (chairman of the R.P.U. Executive) presided.

The CHAIRMAN submitted the report of the Executive, drawing attention to the varied nature of the subjects which the Executive had been called upon to deal with during the past year, which he said had been one of great activity in pharmaceutical affairs. He maintained that the work done by the Executive on behalf of members had been of immense value, and that pharmacists had reason to be grateful for the existence of the R.P.U. The motion for the adoption of the report was carried unanimously.

The TREASURER (Mr. P. F. Rowsell) presented the statement of accounts and drew attention to the improved state of the finances, but pointed out that the small balance in hand was entirely due to the decision not to continue "Pharmacy Week," which had caused such a heavy loss the previous year. He moved the adoption of the account. This was carried unanimously.

The CHAIRMAN announced the result of the election for the Executive (*C. & D.*, March 26, p. 338). He pointed out that four new members had been elected, and that this was consequent upon the redistribution of the electoral areas and the retirement of two members of the Executive, Messrs. Carr and Martin. He paid a tribute to the services rendered by both these gentlemen, and said they would all be sorry that Mr. Carr was compelled to retire for the time being for health reasons, and that Mr. Martin, by reason of his retirement from business, had ceased to be eligible. He also expressed the hope that they were only temporarily losing the valuable services of Messrs. Challinor and Hindle, who had lost their seats through the redistribution scheme.

The CHAIRMAN thanked the secretary (Mr. Mallinson), the assistant secretary (Miss Sharples) and all the staff for their support and assistance during the year.

The SECRETARY replied, and the meeting terminated with a vote of thanks to the chairman, proposed by Mr. MILNER.

Annual Meeting of the C.D.A.

The thirty-first annual meeting of the Chemists' Defence Association, Ltd., was held at 4 and 5 Queen Square, London, W.C.1, on March 22. Mr. W. H. Clubb (chairman) presided.

The CHAIRMAN submitted the directors' report. He referred to the continued progress of the Association and the manner in which the benefits had been extended while maintaining the Association in a sounder financial position than at any time since its foundation. The report was adopted unanimously.

The CHAIRMAN submitted the accounts and balance sheet for the year with the auditors' report; he pointed out the financial strength of the Association. The accounts were adopted without further comment. Messrs. West & Drake were reappointed auditors. A vote of thanks was accorded to the Association's solicitor, Mr. C. H. Kirby, who gave an interesting *résumé* of the principal legal cases fought by the Association during the past year. The proceedings terminated with a vote of thanks to the chairman.

REPORT ON TUBERCULOSIS.—Report No. 64 of the Ministry of Health series on public health (Stationery Office, 3s.) reviews the present state of knowledge with regard to tuberculosis. The author, Dr. A. S. MacNalty, has illustrated his report with charts and tables.

INDEX TO CHEMICAL INDUSTRY LEGISLATION.—The first supplement to the "Index to Acts of Parliament and Statutory Rules and Orders affecting the Chemical Industry," published last year by W. Heffer & Sons, Ltd., 4 Petty Cury, Cambridge, has been issued (price 6d., postage extra) by the same publishers.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Local Reports

ENGLAND AND WALES

Blackburn.—A report was submitted to Blackburn Insurance Committee recently, on the testing of appliances during the past six years. The report showed that in 1926 32.5 per cent. of the 689 dressings of which samples had been taken were deficient in quality and 9 per cent. in quantity. In 1931 the corresponding figures were 1,122 dressings, 11.5 per cent. and 2.8 per cent. Dressings (1,067), supplied in manufacturers' or wholesalers' original sealed packets, showed 11 per cent. deficient in quality and 2.3 per cent. in quantity; whereas in dressings not so enclosed 21.8 per cent. of fifty-five dressings were deficient in quality and 10.9 per cent. in quantity.

Chester.—At the annual meeting of the Chester Insurance Committee, held recently, it was reported that during 1930 59,965 prescriptions were dispensed by chemists, an increase of 899 on the previous year; the amount paid was £2,354, of which £1,099 represented ingredients and £1,255 dispensing fees. The average total cost per prescription was 8.63d.

St. Helens.—A report presented to the St. Helens Insurance Committee states that the sum of £5,906 was paid to chemists in full discharge of their accounts for the year 1930, including a bonus of 19.74 per cent. of the amount of dispensing fees, in respect of 164,374 prescriptions, compared with the sum of £6,065, with no bonus, and 175,835 prescriptions for the year 1929.

Sheffield.—At a recent meeting of the Sheffield Insurance Committee a report on test prescription dispensing was adopted. Four chemists were censured and small sums of money were recommended for deduction. A discrepancy in an appliance (boracic lint) was also dealt with; it was recommended to withhold the sum of £2 2s. from the chemist.

Warwickshire.—The County Pharmaceutical Committee met recently, when the secretary reported as to the use of Benedict's solution in insulin treatment, retention of Clause 4 (4) of the Terms of Service, adoption of a six monthly tariff, and other matters. The report of the Pharmaceutical Service Subcommittee dealt with one case submitted to them for investigation, the result of fifteen samples taken. The analysis showed a deficiency of cod-liver oil in cod-liver oil emulsion, and of ammonium carbonate in mist. expectorans. The report as to the work of the pricing office was satisfactory.

SCOTLAND

Aberdeen.—At a meeting of the Aberdeenshire Insurance Committee, held on March 4, the Committee approved of a report by the Medical Benefit Subcommittee, in which it was stated that the clerk had communicated to the Department of Health a recent recommendation of the Committee to the effect that the number of samples of drugs to be tested might be limited to such a moderate number yearly as the Committee might consider reasonable. In reply to the communication, the clerk submitted a letter from the Department in which it was stated that it was considered inadvisable to make any departure from the present arrangement. The number of tests required, it was stated, was sufficient to insure that all the chemists in the area were tested, roughly, once in three years; and the Department considered that two prescriptions per month was quite a moderate number of tests in over 50,000 forms. The Committee was still of opinion that a reduction in the number of samples might be made—at any rate, under present conditions—and suggested to the clerk that he might make inquiry as to what action was being taken in similar areas.

Association Meetings

Belfast.—A meeting of the Committee of Management of the Chemists' and Druggists' Society of Ireland was held on March 15, Mr. Fred Storey (president) in the chair; Mr. Samuel Gibson (treasurer) and Mr. James Macauley (secretary) were in attendance. The president welcomed Mr. Gibson after his severe illness; Mr. Gibson replied. The president said that since their last meeting the hand of death had been heavy amongst their members. He referred to the deaths of Mr. George McConkey and Mr. T. H. Richardson (Belfast); Mr. R. E. Marshall (Dungannon); Mr. A. C. Scott (Portrush); Mr. R. H. Anderson (Sixmilecross); and Mr. W. McMullan (Belfast). He moved that a vote of sympathy be sent to their relatives, to Mr. Ardis (Newtownhamilton) on the death of his mother, and to Mr. S. McDowell on the death of his sister. This was passed in silence, the members standing.

Enfield.—A meeting of the Enfield and District Chemists' Association was held on March 15, the vice-president (Mr. A. Cross) in the chair. The secretary read a letter from the Retail Pharmacists' Union suggesting that Enfield chemists should endeavour to revive an arrangement whereby goods supplied by welfare centres would be distributed by chemists. After a discussion it was agreed that Messrs. A. Cross and W. M. Pierce should interview the local medical officer of health. A further letter from the R.P.U., enclosing a full-page advertisement taken by North Staffordshire chemists, was read; the letter asked if Enfield chemists intended to advertise on these lines. It was agreed that it would not be profitable or desirable, as members favoured small, continuous and individual advertisements. It was decided not to proceed further with the scheme. The meeting agreed not to offer special inducements to customers in the photographic side of the business.

London (N.).—The monthly meeting of the North London Pharmaceutical Association was held recently, the president (Mr. J. C. Young) in the chair. Mr. G. F. Weiss (chairman of the Middlesex Pharmaceutical Committee) gave an address on *Some Business Problems*. Mr. Weiss dealt in an interesting manner with the multiplication of stock in toilet requisites, which provoked a lively discussion. It was agreed that further consideration should be given to the subject and an endeavour made to try to eliminate losses caused by exploitation of chemists. A hearty vote of thanks was accorded to Mr. Weiss for his address.

London (S.-W.).—A successful "members' night" was held on March 18 by the South-West London Chemists' Association and Branch of the Pharmaceutical Society, when two subjects were discussed. Mr. E. Skues opened a talk upon *The Supply of Infant Foods by Welfare Centres: Is Distribution through Chemists Practicable?* From the manufacturers' points of view it was obvious that each firm had enormous competition to face. The manufacturers were not completely opposed to distribution through legitimate trade channels; but several schemes of varying details had been, and were still being, tried. It could not be said that any one of them was completely satisfactory to manufacturer, chemist and public. From the point of view of the welfare centres and their medical officers it was certain that to justify their existence large attendances at the clinics were necessary; and in order to have this it could not be overlooked that the supply of dried milks at very low cost was a big inducement. From the chemists' viewpoint it was shown that where schemes were in being for distribution through shops, usually those chemists who were nearest to a clinic were the only ones who met with any success. It was evident that if any association were to act on behalf of chemists to promote a suitable scheme, all members must rally to the support of the few who could hope to make this a successful business. The next subject discussed was introduced by Mr. J. T. Hope-Evans under the title of *Trade Menaces to Modern Pharmacy*. There was the gradual dwindling away of chemists' small-priced articles to the stores and market-places. Why did they fail to protest against the pernicious method of advertising that a commodity is obtainable from the chain stores, each separately named. The supply of gifts should be limited to each shop and the offer confined to a definite period. The question of the supply through canteens in works and banks was unsatisfactory, as also was the destamping of proprietaries. The payment of dividends by the co-operative societies was another practice which required close examination. The following members contributed to the discussion: Messrs. Monaghan, Edgecombe, James Loxley, Rees, Rowlands, Shakerley, Tibbett and Wells. The meeting also agreed to send the following resolution to Yardley & Co., Ltd.:—"That the S.W.L.C.A. strongly deprecates the policy of Messrs. Yardley & Co. in advertising to the public the new pack of their face powders using the slogan 'Ask for the Silver Box' without giving due warning to the trade that a change of pack was contemplated. The members request the firm to exchange old packs for new."

Public Pharmacists.—A meeting of the Guild of Public Pharmacists was held on March 16, the president (Mr. R. W. Lindsey) in the chair. Mr. A. H. Jenkin gave an account of some holiday experiences in Iceland; Mr. R. Fouracre exhibited films illustrating the uses of miniature cinematograph apparatus for recording holiday experiences; and Mr. W. A. Knight gave a lecture-demonstration on metal-working as a hobby. A number of small articles made by Mr. Knight were auctioned on behalf of the Society's Benevolent Fund. The thanks of the meeting to the members participating were expressed by the president. A meeting of the Liverpool Branch of the Guild was held on March 21, Mr. Alec Rae in the chair. Miss Dobie and Miss Taylor were re-elected auditors. Dr. E. Gilmore delivered a lecture on *Serums and Vaccines*. He explained the difference between virulent and toxic organisms, and dealt in detail with the diphtheria organism as typical of the latter class. He discussed the work of von Behring, Schick and others, explaining the production and standardisation of anti-diphtheria serum. Dr. Gilmore replied to questions by the chairman, Miss Dobie and Mr. Henriksen. A vote of thanks was proposed by Mr. Henriksen.

West Middlesex.—A meeting of the West Middlesex Chemists' Association was held recently, Mr. J. E. Alcock (president) in the chair. Mr. H. E. Chapman (general secretary of the Proprietary Articles Trade Association) gave an interesting address on *Current Problems and Activities of the P.A.T.A.* Mr. Chapman said that the P.A.T.A. was faced with a crisis, owing to the great increase in cutting. This cutting was taking place outside the ranks of pharmacy. A committee of the Council of the P.A.T.A. was considering ways and means to meet this menace, and he appealed for support from every member. After a discussion the following resolution was passed unanimously:—"That the West Middlesex Chemists' Association has every confidence in the Council of the P.A.T.A., and is ready to support any measures necessary for the prevention of cutting prices." A vote of thanks was accorded to Mr. Chapman.

Women Pharmacists.—A meeting of the National Association of Women Pharmacists was held recently at 17 Bloomsbury Square, Mrs. Adams (president) in the chair. An informative lantern lecture on *Recent Additions to Materia Medica* was given by Mr. G. R. Boyes, B.Sc., Ph.C. (chairman of the Action and Uses Committee of the British Pharmaceutical Codex Revision). Mr. Boyes dealt with materials of animal origin, describing the latest developments in the uses of endocrine preparations and touching on treatment by means of liver extract. A hearty vote of thanks, proposed by Mrs. Freke, was accorded to Mr. Boyes.

The Pharmacy and Poisons Bill

Comments on the Situation

From S. Clifford Jones

IT appears to be assumed that the rank and file of pharmacists in business are supine and without definite opinion because they do not organise a counter-association to oppose official action. Did not the president of the Pharmaceutical Society call a delegates' conference (duly appointed delegates from the branches of the Society)? At that Conference certain definite decisions were reached. They were that two amendments must be made if the Pharmacy and Poisons Bill was to receive the support of the members of the Pharmaceutical Society. The merits of the Bill were recognised, but so were the demerits. No one would deny that the Council and various local associations managed to get many improvements into the Bill. They were called "drafting amendments" that were in the interests of pharmacy. The two important matters have, however, remained as they were.

At the same delegates' conference it was agreed that if an emergency arose the president of the Pharmaceutical Society should have power to deal with the matter as the circumstances demanded. He said that he had arranged for an advisory or emergency committee to assist him in such an event. Once or twice such emergencies arose and the committee was called. It was also agreed that before any other action should be taken a further delegates' conference would be held.

The president will do well to remind the members of the Council and himself that they are bound in fairness to be guided by the delegates' decision, and to remember that if he and the Council think they have changed their mind the delegates should be summoned with a view to hearing the Council's altered opinion. At the moment the president has only the sanction of the delegates—given at Manchester in July 1931—for acting on his own responsibility in case of sudden emergency, and it is truly remarkable that he has exercised this option—

(1) without calling upon the delegates;

(2) without calling together the consultative committee (of four?) which may be presumed to be those entitled to decide whether a sudden emergency has arisen.

In the present circumstances has an emergency arisen? I should say "No," for two reasons; one is that a fair length of time was allowed between the Council's declaration and the time when the Bill can be introduced in Parliament. Two, the special emergency committee was not called before the Council's declaration was published; in fact, I have not yet heard that it has been called.

It might be that the local associations or the delegates' conference would accept the Council's lead—*but at least an opportunity should be given them.* A promise was given to this effect and if should be kept. The Bill has many useful clauses, but it has many glaring omissions. It is not a "jumping-off place" for pharmacy—it is the maxima that pharmacy can expect. If we are to be delegates in anything but name let us call upon the president of our Society to observe the conditions and to play the game. This is not the time or place to criticise or praise the Bill, but it is both the time and the place to insist on a statement being made to a delegates' conference of the present position, according to promise, and for the delegates to state their desires in the light of such explanation.

From A. G. Foster

Years ago, when I was young and enthusiastic enough to believe in a future in which would exist "pharmacy for the pharmacist" (I do not like the title), I was wont to rush into print, hoping to inject others with my optimism; the passage of time proved that I had lived in a dream world from which true pharmacy was excluded. The letter of "Trustful" in the *C. & D.* of March 26 (p. 365) proves him to be made in the right mould; but when he infers that suitably captained we could block the offensive Pharmacy Bill, I would ask him to think again and consider us as a class. In my opinion, equipped with our inferiority complex we have as much chance of impeding any Government measure thrown at us as a wriggling worm has of turning aside the foot of the gardener in whose path it is squirming. Mr. Corrall, in a letter under the same date, aptly explains and excuses my use of the term "worm" when he mentions "organised" pharmacy lying down to the unintelligible gibberish in prescriptions, with its risks, etc., also the petty yet successful efforts made to trap us with "magnesia," aq. calcis, and so on. We are accepted at our own valuation by the powers that be—albeit we should mete out a measure of excuse to those occupying the seats of the mighty; the powers have probably inspected the windows of some "prince of pharmacy" and been invited to "bring their panel prescriptions to us" and/or "Aspirin tablets 1s. each bottle, two for 1s. 1d.," etc., *ad nauseam.* Were we made of the stuff that produced the B.M.A. we should not seek "in forma pauperis," but with the spirit and courage born of conviction demand our rights and get them every time. We need a pharmaceutical Mussolini; we should soon lose that distressing curvature of the spine that has afflicted us through so many years of cringing—cringing that is foreign to every other body of educated men. It is our own fault that Governments see us through the wrong end of the telescope; is it to be wondered at, therefore, that in their eyes we, as a potential fighting force to be reckoned with, are "even less than the dust"? If every chemist possessed the spirit animating the writers referred to above our calling would be healthier, and possess a saner outlook; the huckster's shop would no longer be confused with that of a chemist, "free" gifts would cease, together with other vulgar "stunts." Then and then only shall we hope to impose our just needs on a Government and compel a sympathetic hearing, and educate the passer-by in the fact that a chemist is not a seller of tinware. Some day and along these lines of ethical conduct shall pharmacy come into its own.

From Hugo Wolff

Your correspondent Mr. H. E. Clement regrets that Mr. Melhuish's message was not published a few weeks ago, as he, Mr. Clement, would have sought election to the R.P.U. Executive. . . . He was at one time a member of the R.P.U. Executive, and at the same time he was a member of the Middlesex Pharmaceutical Committee, which body, by the way, has persistently refused the R.P.U. checking bureau scheme. Mr. Clement's position at that time must have been, to quote his own words, "particularly awkward." Did he support the Middlesex action when present at R.P.U. meetings, and did he support the R.P.U. when he attended Middlesex meetings? Perhaps Mr. Clement will tell us. In any case he appears to have overlooked a very important point. There is no doubt that the Council of the Pharmaceutical Society has been sitting on the fence, but at last that body has made up its mind, and said so in plain language. Without going into the merits or the demerits of the Bill, I should like to record my personal appreciation of the courage of Messrs. Melhuish, Hardy, Keall and Rowsell in making up their minds as to what course to pursue, a very difficult thing to do when holding a dual position. Now that we know where we are, let us all pull together and get the best we can out of the Bill, whether it be good or bad.

From J. F. McNeal

It is apparent there are two definite and opposing policies in pharmacy on the subject of the Pharmacy and Poisons Bill; and as you have placed with great courtesy the columns of your publication at the disposal of those in favour of the Bill, I trust you will exercise the same courtesy for the case against the Bill. Mr. Neathercoat, in reviewing the situation, deals with the Bill from many angles, but it is strange that he should omit the most important of all, the viewpoint of the public and that of chemists. Let us examine his statements. Pharmacy appointed three representatives on the Government Commission referred to. Mr. Neathercoat is entitled to his opinion, but the fact remains that his opinion stands alone. He was the only representative to accept fully the report and proposed Bill. Another representative would not sign it and submitted a minority report, and the third representative signed with reservations. The balance is against Mr. Neathercoat. Mr. Gamble, in his minority report, states the case for pharmacy clearly, concisely, and it is the most truthful exposition of the case for pharmacy ever compiled. Let us now read what others have said about this Bill.

The Council of the Society (*C. & D.*, 1930, I, 428) stated: "In conclusion, the Council finds in the report and the Bill much which it can support, but there are some of the proposals which it finds impossible to accept."

Mr. A. E. Young, a pharmaceutical representative on the Commission, made the following reservation (*C. & D.*, 1930, I, 366) to the signing of the report: "I cannot agree with my colleagues that the formation of a new class of vendors of certain poisons such as is contemplated in Clause 16 of the Draft Bill (Appendix III) is in any sense necessary or is in the public interest."

Mr. J. Humphrey, member of Council (*C. & D.*, 1930, II, 22): "The use of the title 'chemist' is scrupulously avoided all through the draft Bill, and chemists and druggists will find their use of the title seriously limited if Clause 5 of the Draft Bill becomes law as it stands."

Conference of representatives of the drug trade (*C. & D.*, 1930, II, 645): "This Conference considers the draft Bill prepared by the Departmental Committee on the Poison and Pharmacy Acts unsatisfactory, and declares that it is unacceptable in its present form."

Mr. M. Parry, member of Council, at the Liverpool chemists' dinner, March 11, 1931, said: "It was proposed to fine a man if he was wrong. If legislation was to proceed along these lines there would be a revolution against the procedure of driving decent citizens to become criminals. He was afraid chemists would have to take a bolder stand and insist on the rights they had as the result of their statutory qualification."

Joint Conference of Pharmaceutical organisations (*C. & D.*, 1931, I, 402); the president of the Society (in the chair) stated: "It was the opinion of the Council of the Society that the changes which have been made in it [the Bill] were not such as to enable the Pharmaceutical Society to accept it, inasmuch as they did not provide satisfactorily for the two points laid down by the meeting of delegates of the Society's Branches as being fundamental." It was agreed to take every step possible to prevent the Bill in its present form becoming law.

Mr. J. Humphrey, member of Council ("Pharmaceutical Journal," 1931, I, 78), stated: "The Government Bill offers them nothing worth mentioning."

The Middlesex County Council, adopting a report (*C. & D.*, 1931, I, 141): "It is evident that an extremely important principle arises for consideration—whether it is in the public interest that any shopkeeper with no pharmaceutical qualification, who may wish to do so, shall now be empowered to sell a great variety of poisons, in spite of the fact that since 1868 qualified pharmacists have had the sole right to sell most poisons."

Mr. Neathercoat states that some fifty or sixty amendments have been obtained. What do all these amendments consist of? The Bill remains the same in substance. Let us now consider the parliamentary campaign. Mr. Neathercoat dwells on the power of governments, but are we to believe that whether a Bill is just or bad, a government would use its majority to place it on the statute-book? Surely M.P.s would decide the quality of the Bill? When the day arrived for the second reading of the Bill, over 100 M.P.s had intimated in writing that they would oppose the Bill, and the printed case against the Bill was handed to every M.P. as he passed through the lobby. It is a well-known fact that it was intended to leave the Bill to an open vote of the House. Had this occurred the Bill would have been defeated, but it was partly the realisation of this and the result of a tripartite meeting of M.P.s that the Bill was not brought forward, a M.P. on a previous Bill talking out time. Mr. Neathercoat forgets an important matter. There are fifty-two Fridays in a year, and many of these have passed without the Bill appearing again. Why? Surely not for lack of time? Is it not true that a Home Office dictum to the Society last summer stated that the Bill would not be brought forward unless opposition was withdrawn? . . .

Mr. Neathercoat contradicts himself. He stresses the point that after all the pressure nothing was gained, then he thinks that outside bodies may get their amendments, as if success comes to any body but chemists; but in the next paragraph he says "the futility of direct parliamentary action." Looking into the future there may be misgivings, but does not all this justify us in remaining steadfast in our desire finally to consolidate the just claims of pharmacy and not to accept such nebulous promises as "paving the way to success," "Another short Bill for pharmacy to follow," "A new jumping-off place," etc.? All these mean just nothing, and are statements which cannot be nailed down when trouble arises. I hope I have made it clear that pharmacy has already been given a lead against the Bill, unless certain amendments could be obtained. Pharmacy will want to know what has transpired behind the scenes to appease some leaders in spite of the fact that the amendments have not been obtained. Pharmacy will remain divided because its leaders are not unanimous. It is therefore with a grave problem before it that pharmacy finds itself without an official rudder. I cannot claim a greater knowledge of this matter than that I have spent all my business career in the pharmacy from apprentice to proprietor, and it is with this practical experience together with advice from other experienced chemists and with counsel's opinion that I give the following advice to chemists, assuming full responsibility for the statement, placed on record for all time as my final attitude in connection with this Bill:—"Do not be tempted, cajoled, threatened, bluffed, deluded or frightened into accepting this Bill as it stands. Victory will then be yours. Your cause is just, and you are upholding the powers and constitution of the Society by refusing to alter your decision. Your Council realises that, without your consent, the Bill must fail."

From "Trustful"

I have seen the report of the address given by Mr. J. Rutherford Hill at Ayr (*C. & D.*, March 19, p. 328); Mr. Hill stated there that the Council was ready with a scheme which could be brought forward at the first favourable opportunity after the Pharmacy and Poisons Bill had been got out of the way. But on the same page was the message from the president; and there we are told that the Council put several questions to themselves, the first one of which was, "Are we likely to obtain a more satisfactory measure at some future time?" The answer was "No." This seems to dispose of the supposition that we could get another Bill embodying our requirements. Mr. Hill said that a Bill taken up later to deal with the questions of dispensing and the business of a chemist and druggist should have nothing to do with poisons. In regard to this I would recommend a fresh reference to the minority report of Mr. F. W. Gamble, a member of the Departmental Committee, pointing out that the sale and distribution of poisons are so intimately connected with the practice of pharmacy that to consider one without the other (including the Dangerous Drugs Act Regulations) would render the proceedings unsatisfactory and futile. I cannot see that the position of pharmacy has altered in the least since that report was issued.

Trade Notes

VINOLIA CO., LTD., Bebington, Cheshire, have sent for our inspection two of their latest display items—the cut-out shown in the illustration below and a Buy British

window bill. The latter, printed in red, white and blue, is gummed at the four corners (back and front) so that it can be fixed to doors, mirrors or windows.

DAKRYSOL is a hair tonic advertised in this issue by Physiologisches Laboratorium Professor Dr. F. Sigmund, Stuttgart S, Germany.

THE SHADFORTH beauty course is described on another page of this issue by Shadforth Prescription Service, Ltd., 63 Grove Road, London, E.3.

EUREKA garden necessities (among others, weed-killer, lawn sand and insecticides) are manufactured by Tomlinson & Hayward, Ltd., 51 Newland, Lincoln.

HALEX BRUSHES.—The British Xylonite Co., Ltd., Hale End, London, E.4, are offering dental plate brushes free on certain orders for Halex brushes placed between April 18 and May 14.

SPRING AND SUMMER LINES.—Baiss Brothers & Co., Ltd., 174 Grange Road, London, S.E.1, are offering lemonade powder, effervescent saline and effervescent morning salts in bulk, or attractively packed in lever-lid tins.

ELASTOPLAST.—T. J. Smith & Nephew, Ltd., are sending out a complete display of their well-known Elastoplast specialities with a small order for these products. Inquiries regarding this offer should be sent to Dept. C, 42 Tavistock Square, London, W.C.1.

THE ALLENBURYS TOFFEE.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, have placed in the market a delicious food toffee containing 20 per cent. of Allenburys milk food and 20 per cent. of dextrose (pure glucose). The new product is packed in unusually attractive tin boxes.

DETENSYL.—Continental Laboratories, Ltd., 30 Marsham Street, London, S.W.1, are the distributors in this country of Detensyl, a preparation in tablet form (tubes of three dozen) described as a complete remedy for hypertension. Detensyl is stated to contain mistletoe, liver, pancreas and lung.

DE FLEURY PERFUMERY PRODUCTS.—May, Roberts & Co., Ltd., Clerkenwell Road, London, E.C.1, have been appointed principal wholesale distributors for De Fleury perfumery and toilet preparations. Orders only should be sent to Messrs. May, Roberts, general correspondence being addressed to Parfumerie de Fleury, Rawdon, Leeds.

SPRING CLEANING and economy are matters of importance in most households at the present time, and, with these objects in view, among the matters to which chemists can profitably draw their customers' attention are the advantages of home dyeing. For such purposes the products of Whitaker & Co. (Kendal), Ltd., Kendal, are well-known, and the company is issuing for display a "storyteller" of considerable interest to ladies.

W-5 TABLETS.—Gelty Distributing Co. (Ellentee, Ltd.), 158 Oxford Street, London, W.1, are the distributors for W-5 tablets, which are described as a scientific preparation for the regeneration of the skin. The tablets are made in two kinds—for men and for women—the former being packed in white boxes and the latter in mauve.

THE CHEMISTS' EXHIBITION will be held this year in the New Hall of the Royal Horticultural Society, Westminster, London, S.W., from May 23-27. The organisers, The British & Colonial Druggist, Ltd., 194 Bishopsgate, London, E.C.2, announce that a few positions are still available, and particulars will be sent on application.

THE LAMBERT PHARMACAL CO., manufacturers of Listerine products, announce that from April 4 the Chesebrough Manufacturing Co., Consolidated, Victoria Road, London, N.W.10, will be sole distributors of their products. Listerine Brand Antiseptic and Listerine Tooth Paste are now manufactured at the new Lambert factory, at Park Royal, London, N.W.10.

QUANTITY TERMS FOR PROPRIETARIES. — Francis Newbery & Sons, Ltd., druggists' sundriesmen, 27 Charterhouse Square, London, E.C.1, are issuing a list which gives particulars of window display and bonus quantity terms for special parcels of proprietary articles. This publication should prove most useful to chemists and a copy will be sent post free to anyone interested.

COMPOUND GLAUBER SALTS TABLETS.—Westminster Laboratories, Ltd., 4 Palmer Street, Westminster, London, S.W.1, have recently placed on the market Dr. I. Brook's Compound Glauber Salts Tablets, a product

containing sodium sulphate, phenolphthalein, potassium iodide, gingerin and kaolin. Each bottle is enclosed in a carton and one dozen are packed in an outer. Attractive showcards are available.

ELITYRAN.—Bayer Products, Ltd., 19 St. Dunstan's Hill, London, E.C.3, inform us that Elityran is a new thyroid preparation which has the advantages of (1) ready solubility; (2) exact standardisation, enabling dosage to be gauged with precision, and (3) absence of such after-effects of thyroid medication as cardiac palpitation and nervous upset. Elityran is issued in tablets of 25 mg. each, in tubes of 30.

Marriages

SCHOLES—COOKE. — At Hoylake Congregational Church, on March 23, Harold Arthur Scholes, chemist and druggist, to Elsie Woodfield Cooke, chemist and druggist, daughter of the late Mr. C. W. Cooke, chemist and druggist, Great Meols, Hoylake.

WILLIAMS—STEELE.—At St. Anne's Church, Stretford, Manchester, on March 28, Eric Williams, chemist and druggist, to Ethel Josephine Steele.

Deaths

ABRAM.—At Walsingham, on March 23, Mr. Frederick William Joseph Abram, retired chemist and druggist, aged sixty-five. During the European war Mr. Abram rendered good service by organising concert parties for the troops. He retired in 1927.

BRONTË.—At 47 Gayton Road, Harrow, on March 22, Mr. Robert Matthew Brontë, L.R.C.P.Irel., L.R.C.S. Irel., L.P.S.I., aged fifty-two. Dr. Brontë passed the Licence examination of the Pharmaceutical Society of Ireland in 1901, and took his medical diplomas six years later. He was at one time assistant to the Professor of Pathology in Dublin, and demonstrator in anatomy and surgery at the Royal College of Surgeons of Ireland. He also served for a short period as Crown Analyst in Ireland. On coming to London, Dr. Brontë took up hospital appointments and carried on a West-End practice. For the past few years he has been pathologist to the Home Office, in which capacity he gave evidence in several sensational trials. He leaves a widow.

Photo] [*Photopress*
DR. R. M. BRONTË

PAIN.—On March 18, Mr. Gordon Newbery Pain, Ph.C., 9 King's Parade, Cambridge, aged forty-five. Mr. Pain was apprenticed to Mr. H. Flanders, chemist and druggist, Mill Road, and was afterwards assistant with Mr. A. Deck, King's Parade, and manager of a pharmacy at Ventnor. In 1913 he returned to Cambridge and joined Mr. Deck in partnership. In 1915 he enlisted in the Royal Engineers. On demobilisation he continued in partnership with Mr. Deck until the latter's retirement in 1929, and since that date he has carried on the pharmacy alone. Mr. Pain leaves a widow and one daughter.

PATERSON.—At Grahamstown, Cape Province, on March 3, after a prolonged illness, Mr. Alexander Paterson, chemist. Mr. Paterson was elected to the Grahamstown City Council in 1916; he tendered his resignation in January last. For some years he was chairman of the health committee, and at one time he was Worshipful Master of the St. John's Masonic Lodge. Mr. Paterson leaves a widow and children.

READMAN.—At Bedford, recently Mr. Edward James Readman, retired chemist and druggist, aged sixty-nine. Mr. Readman was for many years in business as a chemist in Friar Gate, Derby, retiring about two years ago.

ROSS.—At Vichy, on March 23, Mr. Cosmo Mackay Ross, son of Mr. Frank Ross (founder of Frank Ross & Co., Ltd., wholesale and retail druggists, Calcutta).

SPEEDIE.—On March 22, Mr. Robert Speedie, chemist and druggist 5 and 7 High Street, Crieff. Mr. Speedie, who was a native of Kirkcaldy, qualified in 1889, and commenced business in Comrie Street, Crieff, shortly afterwards, eventually removing to High Street. He is survived by a widow and a son.

TWEEDIE.—At Minton Cottage, Bo'ness, on March 24, Mr. Alexander Tweedie, chemist and druggist, aged seventy-nine.

WEST.—On March 17, Mr. Leonard A. West (E. & A. West, Ltd., manufacturing chemists, Parcel Terrace, Derby), aged fifty-six.

Personalities

MR. M. TURNER, chemist and druggist, Tamworth, has been elected a member of the local borough council.

MR. JAMES P. E. KEEBLE, chemist and druggist, Halesworth, Suffolk, has been elected a member of the local urban district council.

MR. D. LOW, chemist and druggist, Winslow, Bucks, has been elected a member of the committee of the local tradesmen's association.

AT a recent meeting of Bolton and District Chamber of Trade special badges commemorative of their work were presented to ex-presidents, including Messrs. W. R. Blain, Ph.C., and H. Knott, chemist and druggist.

AT a meeting of the Derby Branch of the Retail Pharmacists' Union, on March 22, Mr. H G. Toy, chemist and druggist, secretary, was presented by the members with two statuettes of Crown Derby china, in celebration of his recent marriage, and as a token of appreciation of his excellent work during a long period of office. The event was recently recognised in a similar manner by the Derbyshire Pharmaceutical Committee.

ON March 29 "Beachcomber," of "The Daily Express," quoted some remarks on the theory of emulsions, apparently as a first-rate example of scientific jargon. He was promptly challenged by Mr. G. F. Corrall, Enfield Wash, to go to his pharmacy and make a pint of emulsion while Mr. Corrall wrote a satire in verse, the emulsion to be fit for sale and the verse fit to print. We had not heard the result of the challenge at the time of going to press.

Wills

MR. WILLIAM HAMILTON STEWART MACDONALD, Busby House, Busby, near Glasgow, formerly of Greenock, chemical manufacturer, of 189 St. Vincent Street, Glasgow, who died on September 9 last, left personal estate in Great Britain valued £36,119.

MR. WALTER GRIFFITHS HIBBERT, J.P., 6 South Terrace, Neath, Glamorgan, retired chemist and druggist, a member of the Town Council, who died on August 29 last, aged eighty-four, left estate of the gross value of £42,434, with net personalty £38,255.

MR. HAWTHORN STEWART, of "Rashielee," 123 Glasgow Road, Paisley, for many years in business as a chemist in High Street, Paisley, who died on September 7 last, aged sixty-three, left personal estate in Great Britain valued at £2,908.

MR. BENJAMIN METCALF, Andover Road, Newbury, Berks, chemist and druggist, formerly a partner in Hickman & Metcalf, chemists, Market Place, Newbury, who died on December 8 last, aged eighty-three, left estate gross value £16,977, with net personalty £14,349.

MR. DAVID DONALDSON BUCHAN, Craigforth, 28 Mortimer Road, Bournemouth, Hants, chemist and druggist, a partner in the firm of Gilbert & Hall, 35 Commercial Road, Bournemouth, a native of Stirling, who died aged sixty-eight, left estate of the gross value of £3,106, with net personalty £1,624.

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The Chancellor's Problem

A CHANCELLOR OF THE EXCHEQUER once exposed himself to some chaff in the public Press of the day by delivering himself, with the gravity appropriate to his office, of the opinion that "it is easier to handle a surplus than a deficit"; the statement seemed so self-evident that the formal enunciation of it provoked ridicule. But it is doubtful if Mr. Neville Chamberlain's experience would dispose him to adopt that view. Finding himself face to face with the prospect of a fairly substantial surplus in his forthcoming Budget, he must submit to being the target for a vast number of trading and other interests, each of which is able with some show of reason to claim that part, at least, of the surplus should be utilised to give relief to the particular interest represented. Fortunately for him, he is able to take cover under the well-recognised privilege of a Chancellor to withhold from the knowledge of the public the methods of dealing with the nation's finances which are to be proposed in his Budget. That any surplus which may eventuate will be insufficient to meet more than a fraction of the genuine claims to share in it may be taken for granted.

One Meritorious Claim

At the risk of appearing to ignore the difficulties of a harassed Chancellor, it may be permissible to urge again a claim which has more than once been pressed on the notice of his predecessors in office by THE CHEMIST AND DRUGGIST. As all pharmacists know, the burden of spirit duty on spirits made up in medicine is an anomalous impost which it would be difficult to justify on any grounds of reason or logic. The tax on alcoholic liquor as a beverage is accepted by orthodox economists on two grounds. In the first place, it is a tax on a luxury article. Again, expenditure on it can fairly be regarded as pointing to ability in the person expending to contribute to the needs of the State, and thus placing him in the category of citizens who can fairly be called upon to pay for the security which the State affords. It is hardly necessary to point out that spirits made up in medicine can by no process of reasoning be brought within either of these fiscal principles. It was made quite clear in the evidence given before the Licensing Commission which has just reported that spirits used in this way could be taken as a beverage only by a person of the most eccentric taste. Their anomalous position as regards taxation has already been recognised by Parliament. In 1915, when a special additional duty was imposed on spirits too immature to make a wholesome beverage, spirits made up in medicine were not charged with it. Again, the increased duties on spirits imposed by the Finance Act, 1918, and by the Finance Act, 1920, were not extended to medicated spirits. The result is at the present time the very incongruous one that spirits used in the making of officially recognised medicinal preparations are subject only to a duty of 14s. 9d. instead of the full duty of 72s. 6d. a proof gallon, the full duty being paid on the spirits in the first instance and the difference between that and 14s. 9d. being reclaimed as a rebate. It is not too much to hope that something will be done in next Budget to remove this anomaly. The loss to the Exchequer if the duty still charged were remitted altogether would be so small that it is matter for wonder that the concession has not been made by previous Chancellors. By some strange fatality an extraordinary misconception of realities has been shown for some years back in dealing with the duty on spirits. In 1920, when the latest addition (of 22s. 6d. a proof gallon) was made, the estimate was given that this would bring in an additional £24,500,000 of revenue annually. In fact, since the increased duty came into force there has been a continued loss which last year amounted to £13,065,184 compared with the year 1922-23.

New Books

Small, J.—*Practical Botany*. 7½ in. by 4¾ in. Pp. 320, illustrated. 10s. 6d. J. & A. Churchill, 40 Gloucester Place, London, W.1. [Designed for use, in conjunction with Professor Small's "Text-book of Botany," by pharmaceutical and other students. The author points out that with adequate planning plant physiology can "become an all-the-year-round subject." The well-arranged exercises, systematically used, will guide the student to a practical grasp of an important science.]

Wren, R. C.—*Potter's Cyclopædia of Botanical Drugs and Preparations*. Fourth edition. 7¼ in. by 4¾ in. Pp. 406. 5s. Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E.1. [Since the issue of the third edition of this well-known manual, Mr R. C. Wren and Mr. E. M. Holmes, his collaborator, have passed away. The work has been revised by Mr. Henry Potter, Ph.C., and Mr. Richard W. Wren. The illustrations of herbs number about 200, and the additions include several full-page plates in colour.]

Wallis, T. E.—*Practical Pharmacognosy*. Second edition. 8¾ in. by 5½ in. Pp. 198. 12s. 6d. J. & A. Churchill, 40 Gloucester Place, London, W.1. [The second edition (with 105 illustrations) of a text-book first published in 1925. New schedules have been added and some rearrangement has been effected. The chemical tests have been revised; the section dealing with the description of drugs has been entirely rewritten; and a new section has been formed out of histological schedules. These are the principal changes in a manual the usefulness of which is already established.]

Hunwicke, R. F.—*The Essentials of Bacteriological Technique*. 8½ in. by 5¼ in. Pp. 108, with 22 illustrations. 6s. 6d. Williams & Norgate, Ltd., 38 Great Ormond Street, London, W.C.1. [A highly practical character is given to this manual by the author's limitation of descriptions to "those which are really essential for all ordinary purposes and are of proved utility." This principle has involved the exclusion of procedures regarded as obsolete and of alternative methods considered unnecessary. The chapter on culture media, for instance, sets forth a technique simplied by various modifications of or departures from "classical" methods; microscopical staining and sterilisation are treated from the same point of view. An introduction is contributed by Dr. William G. Savage.]

Pharmaceutical Society of Great Britain

Evening Meeting in Edinburgh

The fifth meeting of the session was held at 36 York Place, Edinburgh, on March 16, Mr. J. B. McVitae (chairman of the Executive of the North British Branch), presiding. The first communication was on

The Solubility of Chlorbutol

By Gordon Perrins, Ph.C.

[Abstract]

Three samples of chlorbutol were used to determine the correct solubility, (*a*) an old sample; (*b*) a proprietary sample; and (*c*) a foreign sample. The samples were examined by Denigès method as follows:—10 c.c. of a 1-per-cent. solution of chlorbutol in water and alcohol was treated with 0.5 c.c. of 30-per-cent. NaOH solution free from NaCl, and 10 c.c. of 90-per-cent. alcohol. The mixture was boiled in a reflux condenser, cooled and treated with 0.5 c.c. of HNO_3 (s.g. 1.39) and made up to 100 c.c. with distilled water. Each molecule of chlorbutol gives three molecules of NaCl, which is then titrated with $N/10$ $AgNO_3$, solution of K_2CrO_4 being used as indicator. If exactly 62.15 c.c. of the solution is used, then each c.c. of $N/10$ $AgNO_3$ used up, multiplied by ten, gives the percentage of chlorbutol. Care must be taken to secure that the NaOH solution contains no chlorides or that these have been estimated and allowed for. Tested in this manner, (*a*) gave 98.5 per cent. of chlorbutol, (*b*) gave 99 per cent., and (*c*) 98.5 per cent. The melting points were found to be: (*a*), 80°; (*b*), 77.78°; (*c*), 78.8°. The B.P.C. says chlorbutol, as usually met with, has a melting point of 80° to 81°, but that when anhydrous the melting point is 96°. The results of the Denigès test and the foregoing melting points would seem to indicate that the samples used were not perfectly dry chlorbutol. Small quantities of each of the samples were added gradually to 200 c.c. of distilled water at 15.5° C., and it was found that 1.02 gm. of (*a*), 1 gm. of (*b*), and 0.995 gm. of (*c*) dissolved in 200 c.c. It would seem that while the solubility of 1 in 125 is correct according to the standard of the U.S.P. (25° C.) it is wrong for the British standard of 15.5° and the B.P.C., Squire and Evers require to correct the solubility as stated by them.

Discussion

Mr. Wilson said he thought Mr. Perrins had explained the origin of the discrepancy as to solubility. He remembered that before the days of the Dangerous Drugs Acts they had to prepare opium solutions in which chlorbutol was the preservative, and they had difficulty in effecting solutions. The point as to temperature probably explained their difficulty.

Mr. Rutherford Hill said Mr. Perrins had cleared up a difficulty which had appeared to many people as to why there should be such a discrepancy in the statements as to solubility. The difference between the temperature standard of 25° C. in America and the standard of 15.5° in Britain was the occasion of many apparent discrepancies. It seemed obvious that the substance which had been handled by Mr. Perrins was commercial chlorbutol said to contain half a molecule of water of crystallisation. The new Italian Pharmacopœia stated that when perfectly dry chlorbutol had a melting point of 96°-97° C. He thought it was worth looking into the question as to whether this water was really water of crystallisation or simply a variable quantity of adhering moisture, and it would be interesting to have a determination of this point and also of the solubility of anhydrous chlorbutol.

The Chairman, in moving a vote of thanks to Mr. Perrins, said unfortunately the B.P.C. had misled them in regard to the solubility of chlorbutol. Personally he was accustomed to rely upon "Martindale" for solubilities, and this instance confirmed him in his practice.

The next two communications were on

(a) The Solubility of Santonin in Commercial Crystallisable Benzene

By James Coutts, Ph.C.

[Abstract]

The determinations were carried out at 19° C. Recrystallised santonin, having a melting point of 171° C., was used, and the benzene was commercial crystallisable benzene. The apparatus consisted of two weighing bottles connected by a cork and glass tubing so that a saturated solution of the substance could be obtained. The determinations were made by maintaining the apparatus at 21° C. by means of a thermostat for four days with frequent shaking, and then at 19° C. for forty-eight hours, still shaking frequently. The apparatus was then inverted in the thermostat so that filtration took place at the correct temperature. The lower weighing bottle on removal from the cork was immediately stoppered and weighed. The benzene was removed by evaporation at a low temperature (40° C.), and the bottle and contents dried to constant weight at 95° C. It had previously been ascertained that the benzene left no residue when maintained at this temperature for half an hour. From the data thus obtained the weight of santonin soluble in 100 gm. of benzene and the w/w percentage solubility were calculated. The density of saturated solution of santonin in benzene at 19° C., taking the mean of three determinations, was found to be D 19° $0.88610 \pm 2 \times 10^{-5}$ gm. per mil., and similarly the density of the benzene used was D 19° $0.87915 \pm 2 \times 10^{-5}$ gm. per mil. The figures obtained in the determination of the solubility are set out in a table by the author. This table, taking the mean values, shows that the solubility of santonin in commercial crystallisable benzene D 19° 0.87915 gm. per mil. at 19° C. is 4.0207 gm. in 100 gm. benzene; 3.5348 gm. in 100 mil. of solution; 3.8653 per cent. weight in weight; and 3.4251 per cent. weight in volume; each of these being common ways of expressing solubility.—(From the Pharmacy Research Laboratory, Royal Technical College, Glasgow.)

(b) The Extraction of Santonin from Benzene Solution by Sodium Carbonate Solutions

By James Coutts, Ph.C.

[Abstract]

It was considered advisable, in view of the importance of a correction in the assay of santonica, to determine the solubility of santonin in 8-per-cent and 15-per-cent. solutions of sodium carbonate ($Na_2CO_3.10H_2O$). It was decided to make the determinations indirectly by shaking a solution of santonin in benzene with the sodium carbonate solution. In making the determinations the following were used:—Recrystallised santonin (melting point 171° C.), commercial crystallisable benzene and 8-per-cent. and 15-per-cent. solutions of decahydrated sodium carbonate. Two pipettes, having exactly the same delivery, were used throughout, one for the aqueous and the other for the benzene and benzene solutions. The santonin in benzene solution was approximately 0.15 per cent. 20-c.c. lots of the sodium carbonate solutions in separating funnels, with 40-c.c. lots of the benzene solution were vigorously shaken at frequent intervals for forty-eight hours. Separation was quick and complete. After this treatment 10-c.c. lots of the benzene solution were separated

into accurately tared small flasks; the benzene was evaporated at a low temperature and the flasks dried to constant weight at 95° C. In the controls the benzene solution of santonin was replaced by benzene alone. On evaporation of the benzene there was no appreciable residue from any of the controls. To find the exact amount of santonin present in the delivery from the pipette 10-c.c. lots of the untreated benzene solution were put into tared flasks and similarly dried. (Tables of actual figures obtained are given by the author.)

From these experiments it was concluded that 8-per-cent. w/v solution of sodium carbonate had no solvent action on the santonin. 15-per-cent. sodium carbonate solution was strong enough to extract a certain amount of santonin from benzene solution. This was not a simple solution, and probably involved opening the lactone ring with formation of the sodium salt of the corresponding acid. (From the Pharmacy Research Laboratory, Royal Technical College, Glasgow.)

Discussion

Mr. Rutherford Hill said these two papers were the result of a very considerable amount of careful detail work. They were the sequel to a paper on the presence of santonin in *Artemisia maritima* (*C. & D.*, 1930, I, 6). In the second paper it would appear that this 15-per-cent. sodium carbonate solution was an important matter. The figures given indicated a loss of something like 8 or 10 per cent. of santonin when using a 15-per-cent. sodium carbonate solution, whereas the process could be effectively carried out with 8-per-cent. sodium carbonate solution without any loss of santonin. Another useful feature was the fact that in stating solubilities Mr. Coutts gave the solubility weight in weight as well as weight in volume.

The Chairman, in moving a vote of thanks, said they were very much indebted to Mr. Coutts.

Mr. Coutts, in reply, said the suggestion of a loss of 8 or 10 per cent. of santonin in using 15-per-cent. sodium carbonate solution might apply in the case in which he was using the pure chemical substance. In the manufacturing process, however, in the extraction of santonin various other substances had to be taken account of, and it might not be quite certain that a similar loss of santonin would take place.

The next communication was on

Some Dispensing Experiences

By James Carruthers, Ph.C.

[Abstract]

The following prescriptions, among others, were met with in the ordinary course of business:—

Quinin. sulph.		gr. 40.
Tr. ferri. perchlor.		ʒiss.
Glycerini		℥ss.
Magnes. sulph.		ʒij.
Aq. chloroformi	ad	℥viij.

There is insufficient free hydrochloric acid in the tincture of perchloride of iron to dissolve the quinine sulphate. The addition of a little hydrochloric acid gives a clear mixture.

Aluminis		ʒij.
Glycerin. boracis		℥j.
Glycerin. ac. tannici		ʒvj.
Aquam	ad	℥viij.

A copious precipitate which diffuses readily is thrown down. This appears to be the aluminium boro-tannate mentioned by Martindale.

Tr. iodi mitis		♏24.
Quinin. sulph.		gr. 48.
Aq. chloroformi	ad	℥viij.

Dispensed as written a brown precipitate is produced. The precipitate is quinine iodo-hydriodide or iodised quinine hydriodide having the formula, $C_{20}H_{25}O_2N_2I_3$ or $C_{20}H_{24}O_2N_2.HI+I_2$; it occurs as a reddish-brown amorphous powder. A satisfactory mixture may be made by rubbing down the quinine sulphate with three ounces of the chloroform water, diluting one ounce of mucilage of acacia with three ounces of chloroform water and adding to this the tincture of iodine, then by mixing the two liquids a precipitate is produced which is easily diffusible and well suspended. Make up to volume with chloroform water.

Ext. ergotæ liq.		ʒiij.
Ext. hydrastis liq.		ʒiij.
Tr. nucis vomicæ		ʒij.
Ext. glycyrrhizæ liq.		ʒiij.
Aq. chloroformi	ad	℥viij.

Dispensed as written a heavy precipitate is produced, owing to the resin in the liquid extract of hydrastis being thrown down. When the liquid extract of ergot, the tincture of nux vomica and the liquid extract of liquorice are mixed together no precipitate occurs. To the mixture of these three add one ounce of chloroform water and one ounce of mucilage of tragacanth. Then add the liquid extract of hydrastis and shake quickly, the precipitate produced diffuses readily; make up to volume with chloroform water.

Sodii bicarb.		ʒvj.
Lotio ac. borici, B.P.C.	ad	℥x.

One might wonder why borax should be precipitated when sodium bicarbonate and boric acid are both soluble in the quantity of water and the solubility of borax and boric acid are the same. The explanation is found by studying the molecular weights:—

$$\underset{(248)}{4H_3BO_3} + \underset{(168)}{2NaHCO_3} = \underset{(202)}{Na_2B_4O_7} + \underset{(126)}{7H_2O} + \underset{(88)}{2CO_2}$$

Thus, 248 grains of boric acid produce 202 grains of anhydrous borax, but the B.P. borax has the formula, $Na_2B_4O_7.10H_2O$, so that 248 grains of boric acid produce 382 grains of borax B.P. Therefore the 160 grains of boric acid in the ten fluid ounces of boric acid lotion produce $\frac{382+160}{248} = 246\frac{1}{2}$ grains borax B.P. The solubility of B.P. borax being 1 in 25, the ten ounces of water in the boric acid lotion will only dissolve 192 grains, leaving an excess of $54\frac{1}{2}$ grains. A clear lotion of practically identical composition would be obtained by using three drachms of borax and four drachms of sodium bicarbonate in ten ounces of water.

Zinci oxidi		℥j.
Adipis lanæ		ʒij.
Liq. calcis, Ol. olivæ	aa.	℥ij.
Ichthyol		q.s.
Ol. lavand.		q.s.

An unusual point of interest here was ichthyol q.s.; 1 per cent. was intended by the prescriber. As regards ol. lavand. q.s., 30 minims was dispensed. The most satisfactory cream is made by rubbing the ichthyol with the zinc oxide and incorporating the wool fat. Mix the lime water with the olive oil to form a soap and emulsion, and then gradually add to the mixed ingredients, stirring well. Add the oil of lavender last.

Discussion

Mr. Lothian said at one time there was much in vogue a preparation like the prescription with lime water and olive oil. He found that by placing the two liquids in a bottle and shaking them thoroughly a much better and more permanent solution was obtained.

Mr. Nisbet said he would like to ask whether it was wise to suspend the precipitate in the case of that prescription which gave iodo-hydriodide of quinine. He would like to ask whether that precipitate was dangerous.

Mr. Gilmour said sometimes they were charged with making their pharmaceutical education too high, but in the prescription containing borax they had an example of the practical application of chemical knowledge to the solution of a dispensing problem.

Mr. Carruthers, in reply, said the compound iodo-hydriodide of quinine was not a dangerous substance, and there was no objection to it being suspended.

(*To be concluded.*)

Branch Meetings

Anglesey.—The annual meeting of the Anglesey, North Carnarvonshire and Colwyn Bay Branch of the Pharmaceutical Society was held on March 2. The following officers were elected:—*President,* Mr. J. McIntosh (Llandudno); *Vice-President,* Mr. E. A. Neill (Colwyn Bay); *Treasurer,* Mr. R. Jones (Conway); *Secretary,* Mr. L. G. Wood (Deganwy). The retiring president (Mr. L. G. Wood), who has held office for three years, tendered his cordial thanks to his fellow officers for their services. A discussion relating to some present-day problems of pharmacy followed. The president thought the exclusion of infusion of gentian from mist. sodii salicylatis of the North Wales Formulary was a mistake. Mr. H. R. Evans regretted that there was a tendency on the part of some manufacturers to pack pennyworths. Mr. J. P. Owen (Bangor) said it was better for chemists to sell pennyworths than to let trade go elsewhere. A resolution was passed that chemists, while not refusing to sell pennyworths, should discourage the practice as far as possible.

Bath.—At a meeting of the Bath and District Branch, held on March 16, Mr. Herbert Skinner (a past-president of the Society and chairman of the British Pharmaceutical Conference) gave an address on *Pharmacy in the Public Service.* Treatment of disease, said Mr. Skinner, was not fixed, but a variable and expanding quantity, the process of elaboration being continuous and progressive. Too long had pharmacists admitted by default the limitations of dispensing and compounding of medicines, and allowed themselves to drift into distribution of packed lines and branded goods. If pharmacists were content to continue in this way there was no need for their elaborate system of training and examination. On the other hand, they could easily visualise a more expanding usefulness where pharmacy would occupy a more satisfactory position. A closer co-operation in the common service of pharmacist and physician would simplify medication considerably, but the pharmacist should be trained to play his part. The keeping of open shop was as much a phase of pharmacy as dispensing of medicines in a public institution, and no more. Pharmaceutical experience, knowledge and authority might have saved us from uneconomic and inefficient methods had we not clung too long to archaic knowledge of drugs and missed the change wrought by chemical synthesis. Some knowledge of physiology was a necessity, if pharmacists were to understand pharmacology, and it was equally urgent with recent materia medica. The value of the late Pharmacy and Poisons Bill was not in the fundamentals, but in the consolidation of pharmacy into an organised profession. There were several lines of reserves and activity not yet fully explored, in which pharmaceutical training was the most fitting foundation. Our aim should be to broaden the base, increase the avenues of usefulness; then, conceivably, our economic value would be increased and unemployment in our ranks greatly diminished. The branded medication of to-day might easily be controlled if they had the right concept of pharmaceutical authority. Let them first refuse to be canalised into distribution or dispensing or any other limiting activity; then pharmacy would have the opportunity to become a co-worker with the physician and surgeon in the public service. A discussion followed, Messrs. Rees, D. J. Williams, Aspell, L. Wilson and W. J. Hallett, taking part. The points raised included suggestions that owing to inefficient apprenticeship many students commenced college unsuitably prepared; the pharmacist, to become the true co-worker with the medical man, should develop along Continental lines; to extend the training, pharmacy should first be put in a better position to recompense its graduates. The difficulty of conducting post-graduate courses in the provinces was also mentioned. In reply, Mr. Skinner emphasised that pharmacists should insist on pharmacy and not solely on dispensing, which largely meant, as in other departments of the business, acting as distributors of other people's packed goods. A vote of thanks was proposed by Mr. W. H. Hallett.

Bedfordshire.—The ninth annual meeting of the Bedfordshire Branch was held on March 16. The following officers were elected for the ensuing year:—*President,* Mr. E. H. Burroughs; *Vice-President,* Mr. S. A. Jackson; *Secretary,* Mr. G. N. Shelton; *Treasurer,* Mr. R. C. Frank.

Blackpool.—The annual meeting of the Blackpool and Fylde Branch was held on March 17. The members stood in silence for a few moments as a token of respect for two late members, Mr. Boothroyd and Mr. J. Bailey. The following officers were elected:—*President,* Mr. P. Ormerod; *Vice-President,* Mr. T. Durkin; *Secretary,* Mr. H. Hall. Mr. Durkin remarked that he would like to know the reason for the reversed attitude of the Council towards the Pharmacy and Poisons Bill. It was resolved, after a lively discussion, that the Branch had every confidence in the Council, and felt that whatever the Council did would without doubt be in the best interests of pharmacy.

Bradford.—The ninth annual meeting of the Bradford Branch was held on March 22, Mr. J. A. Lodge in the chair. Mr. F. C. Wilson read his report, which showed that the branch had 172 full members and fifteen student-associates. The financial report showed an income of £54 10s.; expenditure amounted to £38 18s. The following officers were elected for the ensuing year:—*Chairman,* Mr. J. W. Thorpe; *Senior Vice-Chairman,* Mr. F. E. Burdett; *Junior Vice-Chairman,* Mr. W. H. Fysh; *Secretary and Treasurer,* Mr. F. C. Wilson; Messrs. J. Lodge, W. Sutcliffe, E. Robinson and R. W. Carson were added to the *Council.*

Lancashire (N.E.).—The annual meeting of the North-East Lancashire Branch of the Pharmaceutical Society was held recently, Mr. J. E. Isherwood in the chair. Blackburn, Accrington and neighbouring towns were represented. Mr. Fred Law (secretary) reported that Mr. Charles Blezard (Darwen) had resigned from the Committee. A resolution was passed placing on record appreciation of the services rendered by Mr. Blezard. Mr. Law read the financial statement, which showed a balance of £23 13s. Mr. Isherwood said his term of office had coincided with two crises—suggested pharmacy legislation and the national crisis. In neither case could it be said that a settlement had been reached. As a profession, he said, referring to the Pharmacy and Poisons Bill, they objected to the indiscriminate granting of licences enabling the unqualified to sell poisons. That was a matter which they must fight. It was well to recognise that whilst the Bill had its bad points, it also had good ones. He regretted that during his term of office he had not been able to fulfil his desire to have meetings in Accrington and Darwen. He also regretted that the junior side of their movement was disorganised. He suggested that the senior branch should come forward with assistance. Mr. Sidebottom moved a vote of thanks to Mr. Isherwood for his valuable work. Mr. W. Lightbown, seconding, said Mr. Isherwood had always done his best for pharmacy in general and Blackburn chemists in particular. The resolution was carried with acclamation and Mr. Isherwood suitably responded. Mr. Isherwood then proposed the appointment of Mr. Clifford Taylor as president for the ensuing year. In his presidential address Mr. Taylor mentioned that it was due to the invitation of Mr. A. Dobson that he decided to take an active interest in the movement. He wanted to see the juniors more definitely interested. The following officers were appointed:—*Vice-President,* Mr. J. E. Isherwood; *Treasurer,* Alderman W. H. Grimshaw; *Secretary,* Mr. Fred Law; *Committee,* Messrs. Edmundson, E. Eccles, S. H. Sidebottom, W. Holt, A. Dobson, J. Stevenson and H. Carter.

Lincolnshire.—The annual meeting of the North-East Lindsey Branch was held at Grimsby, recently, Mr. B. O. Carr in the chair. The secretary's and the treasurer's reports were adopted. The President called upon Mr. H. Antcliffe (Member of the Society's Council) to give an address, dealing in detail with the work of the various committees of the Council. Mr. Antcliffe made a special appeal on behalf of the Benevolent Fund.

Chemists' and Druggists' Society of Ireland

THE annual meeting of the Chemists' and Druggists' Society of Ireland was held on March 23 at 11 Waring Street, Belfast, the president (Mr. Fred Storey) in the chair.

The PRESIDENT said there were very few registered druggists left in business. Many of the names on the Register were those of men who had gone abroad or given up business.

REPORTS PRESENTED

Mr. J. MACAULEY (secretary) read the annual report, of which the following is an abstract:—

Membership has been steadily maintained. The death of six members is recorded with regret. The finances of the Society are in a sound condition. Our interests are well served by our representatives on the Council—Messrs. Storey, Grimes, Gibson and Martin. The last examination under Schedule 2 for druggists' apprentices and assistants will be held in June 1932. This definitely closes all examinations under Schedule 2. After the Pharmacy and Poisons Act, 1925, came into being we gave an undertaking to afford facilities for classes and for the practice of pharmacy to all our members, assistants and apprentices. This was taken advantage of by a great many, and the rooms are still available for apprentices and assistants. There were no candidates eligible for the Haslett medal this year. During the year your president was approached with a view to reopen the matter of amalgamation, and, although the Committee have no power to act, he thought it advisable to bring it forward again. It was fully discussed, and the Committee unanimously agreed to adhere to the decision of the annual meeting. A very enjoyable reception and whist drive was given during the year by the president and Mrs. Storey. The thanks of the Society are due to Mr. and Mrs. Storey for their generous hospitality.

Mr. S. GIBSON (treasurer) submitted the financial statement, which was of a satisfactory nature.

DISCUSSION ON AMALGAMATION

The PRESIDENT, in moving the adoption of the reports, said it would have been very unfortunate if Mr. Grimes had had to retire from the Council last October. The reduction of druggists' representatives would, however, take effect next election. They had not, continued the president, gone into the new Association. The Committee had reaffirmed its old decision. It was a matter for them to come in later on if they so desired. Amalgamation would have been accomplished two years ago if it had not been turned down by others at that time. The new Association could co-opt members on their committee from a wholesale house in an advisory capacity, but they would not be members of the Association. Mr. Storey also referred to the retirement of Mr. H. Lancashire from the Pharmaceutical Council. It was a great loss to them all, and he was certainly always a friend of the druggist. Mr. Storey advocated the formation of a club for chemists where country men coming to the city could visit and see whatever books they might require. As to N.H.I., he believed there was not a great deal of money in it. They were working under Scottish conditions, but if any attempt were made to bring in the English conditions they should be up against them.

Mr. W. E. WILSON, in seconding, said they were hopeful that the amalgamation between the N.I.P.A. and the U.R.D.T.A. would bridge certain difficulties, and perhaps in the future the members of the Chemists' and Druggists' Society would come in and thereby create one harmonious whole. The Society was still capable of doing good service.

Mr. DAVIS said if the chemists and druggists came in there was nothing to prevent a new agreement being discussed. He would like to know what was to be the future of the Society.

The PRESIDENT said he felt that in the time to come they would join up, but the Committee was not in favour of it at present. The Society was not antagonistic to the new Association. He was not going to stand in the light if members wanted amalgamation.

Mr. RICHEY was of opinion that wholesalers could get as much benefit from the new Association as from the Chemists' and Druggists' Society. He asked if they had many members in connection with the wholesale.

The PRESIDENT said he could not give an exact figure off hand, but he was surprised at the large number, between thirty and forty. They had also their associates, and, according to their rules, of the twenty-one members of Committee, five might be associates with full voting powers.

Mr. DAVIS thought this did not matter, as if and when the Society decided to join the U.R.D.T.A., a new agreement could be arranged.

Mr. GRAY felt there would be no harm done by continuing for at least another year.

Mr. GIBSON agreed, and pointed out that the wholesalers had always stood by their Society. He would like to congratulate Mr. Davis in being elected the first president of the new Association.

Mr. MACAULEY said he also agreed.

Mr. ABERNETHY said he would take his hat off to the N.I.P.A. for the amicable way in which the amalgamation was carried out.

The PRESIDENT said as they had decided to carry on for another year they would do so in a proper manner, and if anything occurred to alter that view, a special meeting could be called. Mr. Davis could rest assured of their full support.

A general discussion followed on matters affecting the trade, in which Mr. Storey again referred to the question of future apprentices having to serve an apprenticeship of five years or more, instead of four. The members were of the opinion that something should be done in this direction.

The reports were unanimously adopted.

ELECTION OF OFFICERS AND COMMITTEE

Mr. GIBSON, proposing the re-election of Mr. Fred Storey as president for the year, said he was sure they would all agree that they could not get a better or more suitable man to fill the position. This was seconded by Mr. WILSON and passed unanimously.

Mr. STOREY, in thanking the members for electing him as president for the thirteenth year, said he was very gratified and proud of their renewed confidence.

On the motion of Mr. DAVIS, seconded by Mr. WILSON, the vice-presidents were re-elected with the addition of Mr. Abernethy.

On the motion of Mr. ABERNETHY, seconded by Mr. WILSON, Mr. Samuel Gibson was re-elected treasurer.

Mr. JAMES MACAULEY was re-elected secretary on the motion of Mr. S. MCDOWELL, seconded by Mr. MCGRATH.

Mr. GRAY proposed, and Mr. ABERNETHY seconded, that the Committee of Management be re-elected to include Mr. Richey in place of Mr. Abernethy, the others being Messrs. W. T. Gordon, J. Guthrie, R. Hastings, R. McBirney, W. Martin, A. W. Stevenson, H. McQuitty, R. A. Jamison, W. J. McKee, T. Unsworth, D. Gilmore, S. Orr, D. M. Honeyman, F. Donaghy, J. A. McRoberts, S. Suffern and D. A. Taylor.

On the motion of Mr. TAYLOR, seconded by Mr. S. MCDOWELL, the auditors (Messrs W. Martin and E. Roberts) were re-elected.

On the motion of Mr. STOREY (president), seconded by Mr. RICHEY, Mr. Gibson was elected representative to the Chamber of Commerce.

On the motion of Mr. ABERNETHY, seconded by Mr. TAYLOR, the rules as amended by the Committee were passed.

Chemicals, Drugs, Etc.

Preliminary Report of Production—1930 Census

PARTICULARS of the census of production in the chemicals, drugs and essential oils, dyestuffs, etc., trades for 1930 have been published in the Board of Trade's preliminary report No. 7. The figures given cover 572 establishments employing an average of more than ten persons throughout 1930. Comparative returns are given for 1924.

The following table shows the values and, where recorded, the quantities of chemicals, drugs, etc., made for sale or for stock in 1930 and 1924:—

Products Sold or Added to Stock	1930		1924	
	Quantity	Value	Quantity	Value
Chemical Manufactures.				
Acids:—	Th. tons	£'000	Th. tons	£'000
Acetic	4.5	154	2.4	83
Hydrochloric (at 1.14s.g.)	161.0	486	207.2	708
Salicylic (including salicylates, not elsewhere specified)	Th. lbs. 1,447.0	78	Th. lbs. 1,185.0	82
Sulphuric (as 100 per cent. acid)	Th. tons 467.2	1,574	Th. tons 605.8	2,106
Nitric	6.5	119	8.0	186
Other acids, not elsewhere specified ..	19.9	1,037	10.2	713
TOTAL VALUE—Acids ..	—	3,448	—	3,878
Aluminium compounds:—	Th. tons		Th. tons	
Sulphate of alumina ..	49.2	222		
Other sorts (including potash alum, ammonia alum and alumina, but excluding bauxite and abrasives)	36.1	442	79.6	572
Ammonia, liquid	13.7	175	—	—
Ammonium compounds:—	Th. tons		Th. tons	
Carbonate and bicarb.	4.7	105	3.7	120
Chloride (muriate) ..	9.7	174	8.5	237
Sulphate	351.7	2,120	41.0	498
Other sorts (including anhydrous ammonia)	16.3	288	24.4	348
TOTAL — Ammonium compounds	382.4	2,687	77.6	1,203
Arsenic compounds, not elsewhere specified ..	Th. tons 1.4	54	Th. tons —	—
Barium compounds (including binoxide and natural sulphate) ..	31.7	146	17.3	190
Bleaching materials (bleaching powder, hydrosulphites, peroxides, perborates, etc.)	106.2	959	94.4	1,091
	Th. galls. 69.9	4	Th. galls. 492.6	26
Bromine and bromides ..	Th. cwts. 4.8	39	—	—
Camphor	0.9	15	—	—
Carbonic acid gas, compressed	Th. lbs. 6,828	86	Th. lbs. 11,004	136
Chloroform	609.7	107	545.1	91
Collodion	Th. galls. 9.3	8	Th. galls. 3.5	5
Ether, sulphuric	103.6	40	115.7	60
Ethyl chloride	Th. lbs. 114.2	17	—	—
Formaldehyde	Th. cwts. 48.5	71	Th. cwts. 11.4	30
Iodine and iodides, not elsewhere specified ..	Th. lbs. 179.8	150	Th. lbs. 199.4	173
Lead compounds	Th. cwts. 58.4	100	Th. cwts. 268.7	551
			—	116
Lime compounds, not elsewhere specified:—	Th. tons		Th. tons 1.1	
Acetate	0.9	8	Th. galls. 51.6	15
Other sorts	—	—	—	62
Magnesium compounds (including chloride and sulphate)	12.3	214	Th. tons 20.9	305
Potassium compounds:—	Th. tons		Th. tons	
Chloride (muriate) ..	1.3	13	0.6	4
Iodide	Th. cwts. 2.4	218	Th. cwts. 2.1	196
Sulphate	Th. tons 1.9	17	Th. tons 0.6	6
Chromate and bichromate	Th. cwts. 25.6	£'000 47	Th. cwts. 109.4	£'000 218
Other sorts	67.2	104		
TOTAL VALUE—Potassium compounds	—	399	—	424
Sodium compounds:—	Th. tons	£'000	Th. tons	£'000
Carbonate of soda (including bicarbonate, soda ash and crystals) and caustic soda ..	934.0	6,213	1,488.8	9,773
Other sodium compounds	175.7	1,430		
Sulphur dioxide (anhydrous)	Th. cwts. 17.2	17	—	—
Synthetic organic chemicals for tanning (except dyes) and photographic purposes, not elsewhere specified	79.8	109	Th. cwts. 74.7	110
Tartar, cream of	47.1	208	49.7	214
Tin salts	22.3	105	—	—
Wood distillation products (except acetic acid, acetone, acetic anhydride, acetate of lime, methyl alcohol and naphtha):—	Th. tons			
Charcoal	7.4	47	—	103
Other sorts	—	12		
Zinc oxide	18.3	422	—	—
Fine chemicals, not elsewhere specified:—				
Re-agents	—	64	—	—
Technical fine chemicals	Th. lbs. 4,481	228	—	—
Research and miscellaneous fine chemicals	2,134	146	—	—
Synthetic perfumery chemicals and isolates and their derivates ..	581	80	—	—
Chemical manufactures, not specified above	—	6,008	—	4,770
TOTAL VALUE—Chemical manufactures	—	28,524	—	28,785
Drugs, Medicines and Medicinal Preparations, etc.	Th. lbs.		Th. lbs.	
Glycero-phosphates ..	73.6	6	42.8	5
Other drugs (quinine and quinine salts, acetyl-salicylic acid, menthol, salvarsan, etc., and novocain, etc.)	645.3	385	510.1	468
Medicinal oils, not included elsewhere	Th. cwts. 3.6	20	Th. cwts. 4.1	36
Ointments and liniments ..	22.2	255	23.3	290
Infants' and invalids' foods, including malt extract, medicated wines, etc. ..	—	2,345	—	1,955
Proprietary medicines, not elsewhere specified ..	—	4,480	—	6,534
Pills and medicated lozenges, capsules and tablets, not included above	Th. cwts. —	£'000 2,033	Th. cwts. —	£'000 4,700
Other drugs and medicinal preparations, not elsewhere specified	—	3,895		
TOTAL VALUE — Drugs, medicines, etc.	—	13,419	—	13,968
Miscellaneous Chemical Products	Th. lbs.		Th. lbs.	
Essential oils	256.5	142	477.2	130
Finishing materials for the Textile Trades, other than oils (including gums, starch, etc.), not elsewhere specified ..	—	87	—	176
Flavouring essences, including colours, for the Confectionery, etc., Trades	—	896	—	460
Boiler composition and disincrustants	—	98	—	251
Brewers' finings	—	83	—	147
Other chemical products ..	—	9	—	55
TOTAL VALUE — Miscellaneous chemical products	—	1,966	—	2,186
TOTAL VALUE — Principal products	—	48,412	—	51,157

Other Products

The following particulars in respect of other products made for sale were recorded:—

Other Products	1930	1924
	£'000	£'000
Soap	69	216
Perfumery, cosmetics, etc.	402	290
Perfumed spirits	55	4
Paints, enamels, varnish, etc.	94	345
Fertilisers	307	599
(*Th. tons*)	(91.6)	(127.7)*
Disinfectants, etc.	273	432
Other goods	1,009	1,371
TOTAL VALUE	2,209	3,257

* Not including the weight of fertilisers, valued at £15,000, returned by value only.

Production, Exports and Retained Imports

The following table shows the exports and retained imports in 1930 and 1924 of certain chemicals in relation to the quantities produced:—

Chemicals, etc.		Production	Exports	Retained Imports	Available for use in the United Kingdom
		Th. tons	Th. tons	Th. tons	Th. tons
Hydrochloric acid	1930	174.5	0.2	—	174.3
	1924	222.4	0.1	—	222.3
Sulphuric acid ..	1930	729.3	7.5	1.0	722.8
	1924	850.0	1.6	—	848.4
Ammonium carbonate and bicarbonate	1930	4.7	2.5	—	2.2
	1924	3.6	2.7	—	0.9
Ammonium chloride (muriate) ..	1930	10.0	4.1	2.7	8.6
	1924	8.9	3.9	1.6	6.6
Bleaching materials	1930	120.4	33.4	4.7	91.7
	1924	102.2	15.3	4.1	91.0
		Th. lb.	Th. lb.	Th. lb.	Th. lb.
Carbonic acid gas ..	1930	6,828	308.2	88.4	6,608.2
	1924	12,186	192.9	4.6	11,997.7
Chloroform.. ..	1930	618.3	87.5	—	530.8
	1924	569.0	130.3	0.4	439.1
Ether, sulphuric ..	1930	104.0	3.3	—	100.7
	1924	119.0	1.7	—	117.3
		Th. cwts.	Th. cwts.	Th. cwts.	Th. cwts.
Formaldehyde ..	1930	72.5	5.2	16.3	83.6
	1924	82.9	5.2	21.5	99.2
Iodine and iodides, not elsewhere specified ..	1930	Th. lbs. 179.8	Th. lbs. 36.6	Th. lbs. —	Th. lbs. 143.2
	1924	201.6	175.0	1,010.2	1,036.8
Magnesium compounds (including chloride and sulphate)		Th. tons.	Th. tons	Th. tons	Th. tons
	1930	12.4	3.7	26.0	34.7
	1924	22.0	4.4	21.4	39.0
Sodium compounds	1930	1,245.1	392.2	64.6	917.5
	1924	1,561.0	500.9	94.2	1,154.3
		Th. cwts.	Th. cwts.	Th. cwts.	Th. cwts.
Tartar, cream of ..	1930	47.1	22.9	27.3	51.5
	1924	49.8	46.3	45.4	48.9

Cost of Materials and Net Output

The following figures show the total cost of materials used by firms that made returns, together with their net output and the amount paid to other firms for work given out to them:—

	1930	1924
	£'000	£'000
Cost of materials used	25,546	29,765
Paid for work given out to other firms ..	8	11
Net output	25,111	24,696
	£	£
Net output per person employed	356	369

Employment

The following table shows the average number of operatives and of administrative, technical and clerical staff employed in 1930 and 1924 by firms that made returns on schedules for the chemicals, dyestuffs and drugs trades. The distribution of the average number of operatives in 1930 between males and females between young persons and adults has been made on the basis of the proportions shown by the figures recorded in respect of the week ended October 18:—

Persons Employed	Males		Females		Males and Females	
	Under 18	All ages	Under 18	All ages	Under 18	All ages
1930						
Operatives (average for the year) ..	2,548	47,833	2,248	8,880	4,796	56,713
Administrative, etc. (as at October 18)	672	9,685	703	4,220	1,375	13,905
TOTAL ..	3,220	57,518	2,951	13,100	6,171	70,618
1924						
Operatives (average for the year) ..	2,772	46,365	2,560	9,259	5,332	55,624
Administrative, etc. (as at October 18)	532	8,147	390	3,191	922	11,388
TOTAL ..	3,304	54,512	2,950	12,450	6,254	67,012

Of the excess of the number employed in 1930 over that recorded for 1924, 2,517 were returned as administrative, technical and clerical staff and 1,089 as operative staff. The latter class included fewer females in the later year and, in both sexes, fewer under eighteen years of age.

Summary

The principal aggregate figures shown in the foregoing paragraphs for 1930 and 1924 are summarised in the following table:—

Particulars	Unit	1930	1924
Value of goods made and work done (gross output)	£'000	50,665	54,472
Cost of materials used	,,	25,546	29,765
Paid for work given out to other firms	,,	8	11
Net output	,,	25,111	24,696
Average number of persons employed	No.	70,618	67,012
Net output per person employed ..	£	356	369
Mechanical power available:—			
Prime movers	H.P.	387,387	165,422
Electric motors driven by purchased electricity	,,	145,842	80,545

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1932, p. 339.

(From "The Trade Marks Journal," March 9, 1932.)

"COFFEMINAL"; for medicinal chemicals (3). By Bayer Products, Ltd., 31-34 Basinghall Street, London, E.C.2. 529,388.

"VITASPRIN"; for chemical substances containing aspirin (3). By C. E. Holmes, 64 Harrington Road, Workington. 529,459.

"LASHPAC"; for preparations for tinting the eyelashes and eyebrows (48). By The Kurlash Co., Inc., 77 South Avenue, Rochester, New York, U.S.A. 528,225.

"IZALMINT"; for perfumery, etc. (48). By Newton, Chambers & Co., Ltd., Thorncliffe Ironworks & Collieries, near Sheffield. 529,221. (Associated.)

(From "The Trade Marks Journal," March 16, 1932.)

"INSPRO" on diamond shape; for chemicals (1) and (2). By Inspro Products, Ltd., King William Street, London, E.C.3. 526,088/089. (Associated.)

"PHOSFERINE" on label design including words "Specially Prepared for Veterinary Use Only." Also the same label surrounded by birds and animals, for medicines for animals and birds (2). By Phosferine (Ashton & Parsons), Ltd., La Belle Sauvage, London, E.C.4. 529,308/309. (Associated.)

"PARKINSON'S KILKOF TACKLES THAT TICKLE" on square shape; for a liquid medicine for coughs, etc. (3). By Parkinsons, Ltd., Curzon Street, Burnley. B528,483.

"NEURAPHEN"; for medicinal chemicals (3). By G. T. Fulford Co., Ltd., 36 Fitzroy Square, London, W.1. 528,515.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, March 31

SUBDUED but fairly steady spot markets are reported in practically all directions. Business has yet to open up on normal lines since the holidays; there is little doubt that the appreciation in sterling exchange rates over last week and the violent fluctuations which have since taken place have had a marked effect on the markets, so far as business is concerned. In the pharmaceutical chemicals market there is little material alteration to record, except that iodides have been reduced, while business has been rather poor. In crude drugs cod-liver oil shows a further sharp decline, and the demand for the new season's oil is slow. Japanese camphor is steady on spot with very little doing, and shipment is rather easier. Prices for English refined camphor have been reduced. Menthol is dull on spot and shipment is steady. Pepper is easier and dull. Inquiry for essential oils has been poor this week. Many of these products for shipment are affected by movements in rates of exchange, but, so far, spot holders are maintaining their former quotations. Japanese dementholised peppermint is quiet on spot with some inquiry for parcels afloat. The shipment position is a turn dearer. In fixed oils some further declines in values are recorded, principally in palm, cotton and linseed oils. Business in this section has been disappointing.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	March 31	Value of the £
Amsterdam ..	Fl. to £	12.107	9.32	15/4¾
Berlin.. ..	Mks. to £	20.43	15¾	15/5¼
Brussels ..	Belga to £	35	26.95	15/4½
Copenhagen ..	Kr. to £	18.159	18.15	19/11¾
Lisbon ..	Esc. to £	110	110	20/0
Madrid ..	Ptas. to £	25.22½	49½	39/7
Milan.. ..	Lire to £	92.46	72½	15/5
Montreal ..	Dol. to £	4.86⅔	4.15	17/0¾
New York ..	Dol. to £	4.86⅔	3.77	15/6
Oslo	Kr. to £	18.159	18 29/32	20/9¾
Paris	Fr. to £	124.21	95⅞	15/5¼
Prague ..	Kr. to £	164.25	127	16/1½
Stockholm ..	Kr. to £	18.159	18⅝	20/6
Warsaw ..	Zloty to £	43.38	33½	15/4½
Zurich ..	Fr. to £	25.2215	19 7/16	15/5

Bank rate 3½ per cent.

Pharmaceutical Chemicals, etc.

SINCE the re-opening after the holidays this market has been particularly dull, and more or less lifeless. The lack of interest has been aggravated by the appreciation of sterling which, if it persists, will tend to weaken many spot markets.

ACETANILID.—The market has been dull with quoted prices unchanged: B.P. crystals and powder, 1s. 5½d. to 1s. 6½d. per lb. as to quantity.

AMIDOL.—Market is steady but very quiet: 56 lb., 7s. 3d.; 28 lb., 7s. 6d.; 14 lb., 7s. 11d. per lb. in 7-lb. tins.

ASPIRIN.—This market continues very steady with business moving on normal lines; home makers are prominent; home trade: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 1 lb., 3s. 4d.; per lb. Export to Colonies and British Possessions: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d. per lb., f.o.b.; less than one cwt., 2s. 9d.; per lb., ex works.

BENZOIC ACID (B.P.) continues quite steady with the demand sustained: quantities, ex works, 1s. 11d.; spot parcels, 1s. 11½d. to 2s. 1d. per lb., ex store, as to quantity.

BROMIDES.—Home makers' quoted prices are steady; imported material competing; markets quiet: ammonium, not less than five cwt., 1s. 7d.; one cwt., 1s. 8d.; smaller quantities, 1s. 11d. per lb.; potassium, B.P. crystals and granular, not less than five cwt., 1s. 4d.; one cwt., 1s. 5d.; and smaller quantities, 1s. 8d. per lb.; sodium, B.P., not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; and smaller quantities, 1s. 10d. per lb. Special prices for bulk quantities. Quoted without engagement.

CALCIUM LACTATE has slackened off a little in demand, but the market is fully steady: spot, 1s. 2¼d. to 1s. 3½d. per lb., as to quantity.

CHLORAL HYDRATE.—Home makers' prices are steady; no competition from imported material: duty-paid crystals, in 14-lb. containers, ten cwt., 3s.; five cwt., 3s. 0½d.; one cwt., 3s. 1½d.; 56 lb., 3s. 2½d.; 28 lb., 3s. 3d. per lb., and in 28-lb. jars one penny per lb. extra.

CITRATES.—Makers' prices are as follows: potassium citrate, B.P., 1s. 7d.; sodium citrate, B.P.C. 1923, 1s. 8d.; ferri ammon. cit. B.P. (brown), 1s. 9d. per lb., in 28-lb. lots; 7-lb. lots, 5d. per lb. dearer.

CITRIC ACID (B.P. crystals).—The market has been dull. Imported material is nominal at about 1s. 1½d. to 1s. 2d. per lb., less 5 per cent., carriage paid. British makers quote 1s. 1d. per lb., less 5 per cent. discount, nominal and without engagement.

COCAINE.—Home trade prices are unchanged. Export prices to the following destinations have been revised. Australia: hydrochloride, 25 oz., 31s. 5d.; 16 oz., 32s. 6d.; less, 33s. 7d. per oz.; pure, 25 oz., 34s. 5d.; 16 oz., 35s. 6d.; less 36s. 8d. per oz., c.i.f. Australia, import duty and primage duty paid by sellers. New Zealand: hydrochloride, 25 oz., 36s. 5d.; 16 oz., 37s. 6d.; less, 38s. 7d. per oz.; pure, 25 oz., 39s. 9d.; 16 oz., 40s. 10d.; less, 41s. 11d. per oz.; c.i.f. New Zealand, import duty and primage duty paid by sellers. British India, Burma and Ceylon: hydrochloride, 25 oz., 28s. 4d.; 16 oz., 29s. 5d.; less, 30s. 7d. per oz.; pure, 25 oz., 31s. 1d.; 16 oz., 32s. 2d.; less, 33s. 4d. c.i.f., excluding import duty. Canada: prices remain unchanged: hydrochloride, 25-oz. tins, $5.95 per oz.; pure, 25-oz. tins, $6.55 per oz., c.i.f Canadian port, including import duty and one per cent. excise tax, but excluding sales tax; smaller packages charged extra.

CREAM OF TARTAR.—Very little imported material offering: nominal at about 107s. 6d. per cwt., less 2½ per cent., carriage paid. British makers quote 99 to 100 per cent. at 105s. per cwt., less 2½ per cent., nominal and without engagement.

CREOSOTE (B.P.).—The market has remained dull: quantities in 25-kilo demijohns, 2s. 1½d.; smaller parcels, up to 2s. 3d. per lb.

CREOSOTE CARBONATE.—Business has been dull: dealers quote spot at about 8s. 2d. to 8s. 4d. per lb., as to quantity.

HEXAMINE.—Market is about steady while business has been rather quieter: free running crystals, spot, from 2s. 7½d. to 3s. 1d. per lb., as to quantity.

HYDROQUINONE.—Convention prices for imported material are steady: ten cwt., 4s. 8¾d.; five cwt., 4s. 9½d.; two cwt., 4s. 10¼d.; one cwt., 4s. 10¾d.; 56 lb., 4s. 11¾d.; 28 lb., 5s. 1¾d.; 14 lb., 5s. 3½d.; 7 lb., 5s. 5½d.; 1 lb., 6s. per lb., carriage paid.

IODIDES.—Makers notify the following reductions with rebates for quantities on contracts unchanged:—Potassium iodide, B.P.: 1 cwt., 16s. 10d.; 28 lb., 17s. 1d.; 14 lb., 17s 4d.; 7 lb., 18s. 4d.; 4 lb., 19s. 1d.; smaller quantities, 19s. 10d. per lb. Sodium iodide B.P.: 28 lb., 18s. 3d.; 14 lb., 18s. 9d.; smaller quantities, 19s. 3d., per lb. Iodino resub. B.P.: 1 cwt., 19s. 7d.; 28 lb., 19s. 10d.; 14 lb., 20s. 4d.; smaller quantities, 20s. 10d., per lb. Iodoform B.P. cryst. precip. or powder: for not less than 28 lb., 22s. 6d.; for not less than 14 lb., 23s.; smaller quantities, 23s. 9d., per lb. In quantities not less than 1 cwt. (which may be taken assorted) containers of 28 lb. and outer packages free. Carriage paid. Quoted without engagement.

LACTIC ACID (B.P.).—The demand has slackened a little but prices are well maintained; quantities in carboys, 1s. 5¾d. to 1s. 8d. per lb.; higher prices for small lots in winchesters.

METHYL SALICYLATE (B.P.).—The market is very steady, with home makers prominent: one ton and over, 1s. 4½d.; ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 6½d.; small quantities in bottles, 2s. per lb.

METOL.—Quoted prices are unchanged, with business dull: 56 lb., 9s. 3d.; 28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d. per lb., in tins; bottles extra, and higher prices for smaller quantities.

MILK SUGAR.—Business has been quieter and the market is easier: one ton, 57s. 6d.; ten cwt., 58s. 6d.; two cwt., 59s. 6d. per cwt., in two-cwt. cases.

PARAFORMALDEHYDE is about steady on a competitive market; business quieter: 100 per cent. powder, quantities in kegs, 1s. 2⅞d.; smaller parcels up to 1s. 5d. per lb.

PARALDEHYDE meets with a fair demand as quoted at 1s. 1d. to 1s. 5d. per lb. as to quantity and packing.

PHENACETIN.—The market is irregular owing to fluctuations in rates of exchange. Business is slow; some offers may be cheaper: crystals, ten cwt., 5s. 3d.; five cwt., 5s. 5d.; two cwt., 5s. 6d.; and less, 5s. 9d. per lb., with powder 2¼d. per lb. extra.

PHENAZONE.—Owing to the improvement in sterling the spot market is nominally cheaper, but most holders are about maintaining their former rates; some sellers may be cheaper: crystals, ten cwt., 9s.; five cwt., 9s. 3d.; two cwt., 9s. 5d.; and less, 9s. 8d. per lb., with powder 2¼d. per lb. extra.

PHENOLPHTHALEIN.—Home makers' prices command the market; business is slow: ten cwt., 4s. 3d.; two cwt., 4s. 6d.; less than two cwt., 4s. 10d. per lb.

POTASSIUM PERMANGANATE (B.P.) has been quiet, with dealers' prices about unchanged: quantities in drums, 8½d. to 8¾d.; smaller parcels, 9d. to 9½d. per lb.

PYROGALLIC ACID is steady on a quiet market: one cwt., 6s. 9d.; 56 lb., 7s.; 28 lb., 7s. 3d.; 14 lb., 7s. 9d.; 7 lb., 8s. 6d. per lb., in 7-lb. tins.

QUININE SULPHATE.—So far the Convention price for this market is unchanged at 2s. 4d. per oz., carriage paid in bulk quantities.

RESORCIN is dull on spot and dealers' prices are inclined to be unsteady on current rates of exchange: one cwt., 4s. 3d.; 56 lb., 4s. 4d.; 28 lb., 4s. 5d.; 14 lb., 4s. 6½d.; 7 lb., 4s. 8d.; less than 7lb., 5s. 1d. per lb.

SALICYLIC ACID (B.P.).—Home makers' prices are well maintained: one ton, 1s. 5d.; ten cwt., 1s. 5½d.; five cwt., 1s. 6d.; one cwt., 1s. 6½d.; small parcels, up to 2s. per lb.

SALOL.—Sterling prices are being maintained; market is slack: crystals, two cwt., 5s. 7d.; one cwt., 5s. 9½d.; 56 lb., 5s. 10½d.; smaller parcels, 6s. per lb.; powder, 2d. per lb. extra.

SODIUM BENZOATE (B.P.)—The market is rather quiet, but prices are maintained: one ton, 1s. 9¼d. up to 2s. 1d. per lb. for small parcels.

SODIUM DIETHYLBARBITURATE is unsteady with very little inquiry on the market: spot, 13s. to 13s. 4d. per lb. as to quantity.

SODIUM SALICYLATE (B.P.).—The market is steady and home makers are prominent; business fair. Home trade: powder, two tons, 1s. 10d.; one ton, 1s. 10½d.; ten cwt., 1s. 11d.; five cwt., 1s. 11½d.; one cwt., 2s.; 28 lb., 2s. 1d.; 14 lb., 2s. 3d.; 7 lb., 2s. 4d.; 1 lb., 2s. 7d. per lb., with crystals 1d. per lb. extra.

TARTARIC ACID (B.P. CRYSTALS).—Dealers' prices for imported material are nominal at about 1s. 2d. per lb., less 5 per cent., ex wharf. British makers quote 1s. 1½d. per lb., less 5 per cent. discount, nominal and without engagement.

Crude Drugs, etc.

ACONITE ROOT.—Napellus is quoted on spot in the region of 75s. per cwt.

AGAR-AGAR.—The spot market is dull and unchanged; shipment is slightly firmer; spot, Kobe No. 1, 4s.; No. 2, 3s. 9d.; Yokohama No. 1, 3s. 9d. per lb.; shipment, Kobe No. 1, 2s. 11d.; No. 2, 2s. 6½d.; Yokohama No. 1, 2s. 6½d. per lb., c.i.f.

BALSAMS.—*Tolu* continues very steady as quoted at 3s. 6d. to 3s. 8d. per lb. Canada, about 4s. spot.

BELLADONNA.—Root testing 0.52 is available at about 60s. per cwt., spot.

BUCHU.—New crop arrivals are now coming to hand. The market is very steady at former rates. Good green rounds, 1s. to 1s. 2d. per lb.; ovals are quoted from 9d. to 10d. per lb.

CAMPHOR.—The spot market for Japanese is dull and shipment is rather easier. Spot, slabs, 2s. 8d.; no flowers offering; tablets, 3s. 6d. per lb.; shipment, slabs, 1s. 11d.; flowers, 1s. 11½d.; tablets, 2s. 4¼d. per lb., c.i.f. English refined camphor has been reduced by makers by 3d. per lb., as follows: flowers, one cwt., 3s. 4d.; 28 lb., 3s. 5d.; small lots, 3s. 6d. per lb. Transparent tablets: 4 oz., 8 oz., 16 oz., 3s. 7d.; 1 oz., 2 oz., 3s. 8d.; ½ oz., ⅓ oz., and ¼ oz., 3s. 9d., per lb. Special rates apply for quantities and contracts. Quoted without engagement.

CHAMOMILES.—Fair white flowers on spot are offering in the region of 125s. per cwt. No. 2, about 120s.

CLOVES.—The market has been dull but is keeping steady. Zanzibar, spot, 8d.; shipment, April-May, 7⅞d. c.i.f. Madagascar, spot, 8d. sellers.

The landings of Zanzibar in London during the week ended March 26 were 175 and the deliveries 25, leaving a stock of 1,836, against 476 in 1931. From January 1 to date landings of Zanzibar have been 2,616, against 409 in 1931, and the deliveries 2,759, against 846 in 1931. Landings of Madagascar for the week ended March 26 were *nil* and the deliveries 12, leaving a stock of 1,627, against 1,193 in 1931. Landings of Madagascar this year to date have been 782, against 1,271 in 1931, and the deliveries 162, against 1,019 in 1931.

COCONUT (DESICCATED).—A further decline in values is recorded this week. Spot, fine, 27s.; medium, 27s. 3d.; shipment, halves, April-May, 24s. 3d. sellers, c.i.f.

COD-LIVER OIL.—Due to the good fishing reports the market has again weakened and business is by no means good. The shipment figure for finest Lofoten steam-refined non-freezing medicinal oil is about 88s. to 90s. per barrel, c.i.f. Spot is in the region of 110s. per barrel. Some brands may be cheaper. Catch of cod to-date is 82,800 tons against 63,700 tons last year, and oil production totals 50,503 hectol., against 30,760 hectol. last year.

ERGOT.—This market is very steady. Spanish, 2s. 2d. to 2s. 3d.; Portuguese, 2s. per lb.

GELATIN.—Dealers' quoted prices are steady; business quiet. Spot, gold leaf, 2s. 2½d.; silver leaf, 1s. 11d. bronze leaf, 1s. 8½d.; thin leaf, 1s. 6½d. per lb., in cwt. cases.

GINGER.—The market is quiet and a shade easier for shipment. West African, spot, 25s.; for arrival, sellers, 22s. c.i.f.

GUM ACACIA.—This market has been slack but quoted prices are about maintained. Spot, Kordofan cleaned sorts, 37s. 6d.; natural, 35s. 6d.; bleached, 80s. to 82s. 6d. per cwt; shipment, Kordofan cleaned sorts, 31s.; natural, 29s. 6d. per cwt., c.i.f.

HENBANE.—Good Russian is available on spot at 47s. 6d. per cwt.

HENNA LEAVES.—New green leaves are offering on spot at about 32s. 6d. per cwt.

HONEY.—Supplies on spot are very short while the demand is quiet; the market continues firm at former rates. There is as yet no news of new season arrivals.

HYDRASTIS is dull and rather cheaper on spot at 4s. 9d. to 5s. per lb.

IPECACUANHA.—Business has remained slow, but Matto Grosso on spot is holding at 5s. 3d. to 5s. 6d. per lb. Minas is quoted from 4s. 6d. to 4s. 9d. per lb. spot.

LIQUORICE ROOT.—Natural is quoted on spot at about 20s.

MALE FERN EXTRACT.—The market is dull, with spot offers at about 5s. to 5s. 3d. per lb.

MENTHOL.—There is little interest on spot, with Japanese K/S brands quoted unchanged at about 16s. per lb.; a fair inquiry for goods afloat. Shipment is steady, with January-March 12s. 6d., and April-June 12s. 1½d. per lb. c.i.f.

MERCURY.—The shipment figure for Spanish-Italian continues at 65 dollars per bottle, f.o.b. Continental port. Spot is rather easier on exchange rates, in the region of £18 per bottle, ex wharehouse.

PEPPER.—Business has been poor and the market shows a general move to slightly lower values. Lampong, spot, 6¾d.; shipment, March-May, 5⅞d.; April-June, 5⅞d.; August-October, 5⅝d., c.i.f. Tellicherry, spot, 7½d.; shipment, April-May, 67s., c.i.f. Aleppy, spot, 7¼d.; shipment, April-May, 65s., c.i.f. White Muntok, spot, 8d.; afloat, 6⅞d.; shipment, April-June sold at 6¾d.; May-July, 6 11/16d.; August-October sold at 6⅝d., c.i.f.

PIMENTO has been dull and is a shade easier, with spot at 2⅜d. per lb.; shipment, March-April, 22s. 6d. per cwt., sellers, c.i.f.

QUASSIA CHIPS.—Spot supplies of kiln-dried are quoted at about 27s. 6d. per cwt.

QUILLAIA BARK.—Dealers are quoting whole bark at 32s. 6d. per cwt., spot.

RUBBER.—There has been very little business and quoted values are slightly easier. U.K. stocks, 125,236 tons, against 132,183 tons a year ago. World stocks at February 29 totalled 631,895 tons, against 513,418 tons on February 28, 1931. Standard ribbed smoked sheet, sellers, spot, 1 13/16d.; April, 1 15/16d.; May, 2d.; June, 2d.; July-September, 2 1/16d.; October-December, 2 3/16d.; January-March, 2¼d.

SAFFRON.—Business is slack and the market is easier on exchange rates: prime B.P., 53s.; extra B.P., 49s.; super B.P., 48s. per lb.

SARSAPARILLA.—Last week's better prices of 1s. 10d. to 1s. 11d. per lb. for grey Jamaica are steadily maintained: native, mixed colours, quoted from 1s. 1d. to 1s. 1½d. per lb., spot.

SEEDS.—Market quiet, with very little business passing. ANISE.—Spanish, 55s.; Bulgarian, 40s. per cwt. on spot. CANARY.—Mazagan, spot, 16s. 9d.; Tangier, spot, 16s.; Kenitra, spot, 15s. 6d. LINSEED.—Spot, Mazagan, 15s., and Morocco, 14s. 6d. CORIANDER.—Spot, 1929 crop quoted at 17s.; no demand. CUMIN.—Malta, spot, 40s.; Morocco, 28s. 6d. spot. FENUGREEK.—Tunisian, 17s., and Morocco, 15s. spot. CARAWAY.—Dutch, on spot, 35s. MUSTARD.—English, 22s. 6d. to 32s. 6d. per cwt., according to quality.

SENEGA.—This market is much neglected, with the spot quotation at 1s. 8d. per lb.

SENNA.—The spot market remains quiet, with prices about maintained. Shipment offers are also holding at former rates. Tinnevelly leaves have been dull except for a few sales of good bold green leaves.

SHELLAC.—The market has been lifeless, but the tone is steadier. Spot, standard TN orange, 65s.; fine orange, 70s. to 140s.; pure button, 80s.; for delivery, TN, May, 60s.; August, 61s. 6d.; October, 63s.; for arrival, TN sellers, March-April, 56s. c.i.f.

STRAMONIUM LEAVES.—Good green leaves are offering on spot at 52s. 6d. per cwt.

TUBA ROOT.—Powdered root of good test is quoted on spot at about 1s. 6d. per lb.

WAX (VARIOUS).—These markets have been rather quiet, but the tone is fairly steady. JAPANESE, on spot, is steady but rather quieter at 62s. 6d.; CARNAUBA, fatty grey and chalky grey, 75s.; medium yellow, steady, 140s.; fine yellow, 170s.; CANDELILLA is unchanged at 90s. per cwt.; SPERMACETI, steady at 9½d. per lb. spot; PARAFFIN is quoted from 25s. to 34s per cwt. as to melting point; CERESIN is quoted from 35s. to 80s. per cwt. as to colour and melting point; BEES' is unchanged, with the market dull: bleached, discs, £7 15s.; slabs, £7 10s.; yellow refined, £5 15s.; yellow crude, £5 per cwt. spot.

Essential Oils

BUSINESS has been extremely quiet so far this week. The subdued tone is widespread and is to some extent, no doubt, due to the recent appreciation in sterling exchange rates, which has a tendency to weaken markets. So far, spot values are being generally maintained. Sicilian sweet orange is very steady while lemon from the same source varies on quotation on spot according to brand and quality, and the demand is limited.

ANISE (STAR).—Spot is steady and dull, while shipment is a fraction easier: spot, "Red Ship," in leads, 2s. 3d.; in tins, 2s. 2d.; in drums, 2s.; shipment, in leads, 1s. 9½d.; in tins, 1s. 8¼d.; in drums, 1s. 7½d. per lb. c.i.f.

BERGAMOT.—There is nothing to report in this market. Business is difficult, and spot offers continue at about 10s. 6d. to 11s. per lb.

BOIS DE ROSE.—The markets have been dull. Cayenne is quoted on spot at about 7s. 3d. per lb. Brazilian is at about 3s. to 3s. 2d. per lb.

CARAWAY.—The market is showing little life; twice rectified, on spot, 8s. 6d. to 8s. 9d. per lb. for fair quantities.

CASSIA has been dull; dealers quote spot at about 4s. 9d. per lb.

CEDARWOOD is steady but business is lacking. Quantities in drums, about 1s. 11d.; smaller parcels, 2s. per lb. Shipment, 1s. 9d. per lb., c.i.f.

CITRONELLA.—The firmer tendency of the Java shipment market is set-off by the improvement in sterling; Java, spot, 2s. 10d. per lb.; shipment, 2s. 6½d. c.i.f.; Ceylon is unchanged; spot, 1s. 9d.; shipment, 1s. 8½d. per lb., c.i.f.

CLOVE is unchanged with English 90 to 92 per cent. at from 4s. 9d. per lb.; Madagascar, spot, about 4s. 3d.

GERANIUM.—Spot business is unimportant. Bourbon is quoted at about 27s. 6d. per lb. The shipment market is nominal. Algerian is quoted on spot at about 27s. 6d. per lb.

GINGERGRASS remains dull with dealers quoting spot in the region of 7s. per lb.

LAVENDER.—Market is dull and tends easier on exchange rates: French, 38 to 40 per cent., 11s. to 11s. 3d.; 36 to 38 per cent., 10s. 9d. to 11s. per lb. as to quantity; some offers may be cheaper.

LEMON.—The spot market for Sicilian hand-pressed is dull and unsteady, with offers at 5s. 9d. to 6s. 3d. per lb. as to quantity and quality; some offers may be at less. Shipment for new crop is at about 5s. 6d. to 5s. 8d. per lb. c.i.f. Californian, spot, 62 cents per lb., in drums.

LEMONGRASS has been quiet, with the market steady: spot, 2s. 2½d. to 2s. 3d. per lb.; shipment, 2s. 1½d. per lb. c.i.f.

MANDARIN is flat on spot, with dealers' prices about 16s. to 16s. 3d. per lb.

ORANGE.—Although rather quiet, this market is quite steady, with Sicilian sweet on spot at about 8s. 9d. per lb.; shipment, 7s. 9d. per lb. c.i.f. French Colonial, 5s. 11d. per lb. c.i.f. West Indian, hand-pressed, 5s. 6d. to 5s. 8d. per lb., spot. Californian, spot, 82 cents to 92 cents per lb., as to quantity.

PEPPERMINT.—The spot market for Japanese dementholised is dull and quoted at about 4s. 4½d. per lb.; a fair inquiry for afloat is being received. The shipment market is steadier: January-March, 3s. 10d.; April-June, 3s. 9d. per lb. c.i.f. American oil, natural, 9s. 6d.; redistilled, 10s. 9d. per lb. spot.

PETITGRAIN is rather easier at about 4s. 6d. to 4s. 8d. per lb.

SASSAFRAS remains slack, with dealers quoting spot at about 5s. 3d. to 5s. 5d. per lb. as to quantity.

SPEARMINT is steady, but quiet on spot at about 8s. 9d. per lb.

SPIKE.—Spanish is mentioned on spot at about 4s. 3d. to 4s. 4d. per lb.; market has been quieter.

WORMSEED.—The market has been quiet: spot, about 11s. 10d. to 12s. per lb. as to quantity.

The following importations from the countries indicated have taken place during the period March 15 to 21 inclusive:—Australia, 1,202 lb.; Brazil, 2,520 lb.; B.W.I., 1,670 lb.; France, 734 lb.; Italy, 622 lb.; Spain, 21 lb.; Switzerland, 108 lb.

Fixed Oils, etc.

FURTHER depreciation in the values quoted for a number of products is recorded this week, and business has been disappointing. Palm, cotton and linseed (raw, naked) oils are cheaper. American turpentine is dull and rather unsteady. ACID OILS.—Business has been quiet with the market irregular: coconut and/or palm kernel, 23s. 6d.; groundnut, 21s.; soya, 16s. 6d., spot. CASTOR.—Market has been flat and prices for all grades are easier: pharmaceutical, 47s. 6d.; first pressings, 42s. 6d., second pressings, 40s. 6d. (barrels); cases, £4 per ton extra, ex mills, Hull, in not less than one-ton lots; Bombay, 33s. (drums), c.i.f. nominal. COCONUT.—Market is fairly steady; business has been moderate: deodorised, 36s. (barrels), spot; Ceylon, 28s. 6d. (drums), c.i.f. COTTON.—Prices for all grades are again slightly easier, and business has been slow: deodorised, 30s. 6d.; common edible, 28s. 6d.; soap making, 26s. 6d.; crude, 24s. 6d., spot. GROUNDNUT.—Market is rather easier and quieter: deodorised, 46s. 6d.; (barrels), spot; crude Oriental, 35s. 6d. (drums), c.i.f. LINSEED (RAW, NAKED).—The market is dull and easier as quoted. On spot, 14s.; April, 13s. 6d.; May-August, 14s. 6d.; September-December, 15s. 9d. Boiled oil, spot, 16s. 9d. OLIVE.—Quoted prices are unchanged, and the market is steady: edible, 6s. 3d. in drums, 6s. 9d. in tins in cases; B.P., 5s. per gallon, in 40-gallon barrels. PALM.—The market shows a loss on the week, and is rather unsteady at the close: Lagos, 18s.; softs, 17s.; medium, 17s. 3d.; hards, 18s. 3d.; bleached, 20s. 3d., spot. PALM KERNEL.—Quoted slightly easier on a dull market: deodorised, 35s. 3d.; crude, 26s. 6d. spot. RAPE is steady but business has been restricted: refined, 34s. 6d.; crude, 32s. 6d. spot. RESIN is about unchanged on a dull market: B. 12s. 9d.; D, 13s.; F/G, 14s.; N, 19s. 9d.; W/G, 22s. 9d.; W/W, 25s. per cwt., ex wharf. SOYA.—The market is steady but quiet: deodorised, spot, 31s.; crude, 27s. spot. TURPENTINE.—Values, after some fluctuations, are about level on the week, market quiet. Total London stocks, 24,118 barrels. On spot, 56s. 6d.; March-April, 56s. 6d. WOOD.—Hankow in barrels on spot is maintained on quotation at 58s.

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

R.P.U. Executive Election

SIR,—I wish to thank all members of the R.P.U. who voted for me at the recent election and thereby helped to secure my return, also to say that whilst a member of the Executive I shall do my utmost to further the interests of pharmacists from the retail and business points of view.—Yours faithfully,

ARTHUR W. MORGAN.

Bedford.

SIR,—I should like, through the medium of your paper, to thank the electors of Southern Division 2 for electing me as their representative on the above committee. It will be my endeavour to merit the confidence they have placed in me by strict attendance to the duties of that committee.—Yours faithfully,

WILFRID W. ATKINSON.

Southampton.

Three Events

SIR,—I should like to put on record three events within my experience of the last three weeks. (1) The return of four makes of baby food, in stock from six to twelve months—a dead loss; no credit, one firm not even acknowledging receipt of the food. In the case of one make I obliged the grocer; this was returned to the grocer, who in his turn sent this customer to me who had supplied it. The customer was very wroth (food one month out of date). Briefly I told him that he was the cause of the trouble. Why didn't he send to the chemist always? . . . (2) Received the Ensign five-point plan. . . . (3) A customer of mine bought to-day a shaving stick and razor towel at the "Co-op.," and received a "divvy" check.—Yours faithfully,

F. PEARCE.

Chipping Norton.

Collective Advertising

SIR,—There are reasons why no national advertising on a large scale could be embarked upon having as its object our design to combat the effect of the chain-store advertising, which introduces "sob stuff" of American flavour. But there is every reason why those chemists who are endeavouring to earn a living in a district where these competitors operate should combine to emphasise their claim to local support by means of effective advertising, and by so doing to fix on the mind of the public the service and ability at its disposal. A co-operative, effective movement boldly and resolutely taken would have a great effect, beneficial to those backing up such an action.—I am, etc.,

TANK CORPS (29/3).

Greater and Less Accuracy

SIR,—The address by Mr. John Butler on "Accurate and Inaccurate Dispensing" (*C. & D.*, February 20, p 191) shows us first the great degree of accuracy which dispensers achieve with the apparatus at their disposal, and secondly the impossibility of applying laboratory methods of working to the dispensing counter. Out of the forty bromide mixtures taken as a test there were only six with over 5 per cent. error, and three over 10 per cent.; in a 5-gr. dose of bromide 5 per cent. amounts to 0.25 gr., and even the most rabid prescriber would hardly claim that this variation was deleterious to his patient. It will be noticed that in weighing a powder, when weighing quantities of 1 gr. and 10 gr., the average weight was slightly over the true weight, but in weighing 1-drachm quantities the average comes a shade under When measuring liquids a source of error may be accounted for by liquid remaining in the measure; we are recommended to rinse out the measure so as to deliver the full quantity of medicament, but unless the measure is washed and dried each time there is still a certain amount of liquid left in. It is impossible for the dispenser to go to such niceties as washing and drying the measure between each measurement, or to stand it on the counter and hold paper behind it to observe the meniscus, especially in rush hours. I contend that the introduction of meticulous methods is entirely unnecessary. Fortunately, insurance committees have latterly taken a more reasonable view of this matter.

Faithfully yours,

METICULATE (29/2).

Gift Coupon Bill

SIR,—The proposed legislation to prohibit the distribution of free gifts in exchange for coupons will receive the cordial support of traders of every kind. The chemist in retail business has his share of the effect of such schemes. It is no uncommon experience for him to be asked by a customer who is making a purchase if there is "anything given away with it." It is a degrading position, in which the trader is helpless, because if his principles are against such schemes and he refuses to be a party to them his customer does not hesitate to go elsewhere. These gift schemes also encourage buying which is out of proportion to the quantities required. Gift schemes should now come to an end.—Yours faithfully,

IDEALIST (29/2).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

A Confusion of Identity

Under "Wills" on p. 323 of THE CHEMIST AND DRUGGIST of March 19 reference is made to Mr. Joseph Oliver. This is not the Mr. Joseph Oliver who was associated with Lofthouse & Saltmer, Ltd., Hull. It is rather singular that two Joseph Olivers died in Hull, I think on the same day.—*A. G.* (21/3).

N.H.I. Testing Scheme in Scotland

I am glad to see by your correspondence columns evidence of the discontent of Scottish chemists against the N.H.I. testing scheme. Why should we have to submit to a degrading inquisition and be censured, fined or struck off the panel for any slight error? Since doctors are not subjected to this degrading practice, I submit that chemists are entitled to expect the same treatment. I entirely agree that it is manifestly unjust to disallow the chemist what has been duly prescribed by the doctor. Saddle the right horse. —*The Thistle* (21/3).

The Manufacture of Galenicals

I think that Mr. Walter Cowie, M.P.S. (*C. & D.*, February 6, p. 154) would find it unprofitable to manufacture his own tinctures, unless he was able to deal with very large quantities, which is unlikely in the ordinary retail shop. Having been trained to make most galenicals, and having had some years' experience in the wholesale, I used to make some of my own; but for several years past, with the competitive prices quoted by the wholesale drug houses, the time taken up by standardising those preparations requiring it and the reclaiming of the spirit rebate I have found that it does not pay, whatever may have been the case in pre-war times.—*M.P.S.2* (16/2).

Dispensing Notes and Difficulties

Alteration in Colour

SIR,—I would deem it a favour if you would explain what happens when the following mixture is dispensed. After two or three days it turns a yellow colour I have made it up with cold, warm, tap, and distilled water; still it turns a yellow colour or deposits. When first dispensed, six months ago, I got no complaints or remarks about it. I should not trespass on your space only the matter is important for me.

Sodii sulph.	ʒij.
Magnes. sulphatis	ʒij.
Ferri et amm. citratis	ʒiv.
Tr. nuc. vom.	♏iij.
Tr. gent. co.	ʒiv.
Inf. quassiæ	ʒiv.
Aq. chloroformi	ʒij.
Acid. phosph. dil.	♏iv.
Aq. menth. pip. ... ... ad	℥viij.

Yours faithfully,
ALPHA (24/9).

[If a few drops of solution of ferri et ammon. cit. are dropped into a test tube containing dilute phosphoric acid, it first colours it brown. This colour gradually disappears leaving a water-white liquid. If warmed over the Bunsen flame it goes immediately. With acid. phosph. conc. it goes more rapidly still—on warming. This is due to formation of ferric phosphate. The whole mixture when made up deposits slightly in three days, probably from the tinct. nucis vom. No change occurs in colour that is perceptible. After one week about one-half of the colour has disappeared owing to formation of ferric phosphate partly soluble in excess of acid, but with a small deposit of insoluble phosphate of iron. It should be made by dissolving the salts in half the peppermint water, adding the infusion of quassia and chloroform water, and, finally, the phosphoric acid. There is no way of preventing the action of phosphoric acid on iron preparations, and we can only suggest that it must always be freshly made. It is just as well to tell the patient that it alters in colour if kept too long.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Westminster (14/38).—PERSPIRATION DEODORANT.—We have no information concerning the composition of the preparation you mention, but the following formula yields an excellent application for the removal of malodorous perspiration:—

Sodium perborate	5.0
Sodium bicarbonate	1.0
Glycerin	0.5
Rose water ... ... to	100.0

It may be tinted pink with solution of eosin.

M. P. (20/4).—LEMON CREAM.—The following formula is suggested for a hand cream:—

Acid. citric.	gr. v.
Glycerin. amyli,	
Adipis lanæ,	
Paraff. moll. ... ... aa.	p. æq. ad ʒj.
Ol. limonis	a.s.

S. C. (12/3).—PREPARATION FOR FOAM BATH.—This was found to consist of a mixture of liquid extract of quillaia and a gum, clearly of the acacia type. As a result of experiments we found that a similar, if not superior, preparation could be made by thickening liquid extract of quillaia with mucilage of tragacanth, using the following proportions:—Liquid extract of quillaia, 1 oz.; mucilage of tragacanth, 2 drachms.

Legal Queries

C. D. G. (2/2).—Liquid preparations containing more than 3 per cent. of carbolic acid and its homologues come within Part II of the Poisons Schedule.

T. C. (7/3) advertised his services as an assistant, and in response to a request from a prospective employer went to a distant town for an interview. His expenses of the journey were nearly £2; but the chemist refused to pay more than 5s. Has "T. C." a claim for the balance of the amount he expended upon a fruitless journey? [In our opinion, the prospective employer was under no legal liability to pay any part of the expenses unless he agreed to do so.]

Nemo (14/3) has bought a weighing machine on the deferred payment system. Is he entitled to return the machine to the suppliers and cease to pay any more instalments? [It depends entirely upon the terms of the contract under which the machine was supplied. If it is a true "hire-purchase" agreement he is entitled to return the machine at any time, upon payment of the full amount due up to that date. If, on the other hand, the agreement is for the purchase of the goods outright and the payment of the price by instalments, "Nemo" has no right to return the machine and must pay the balance owing.]

P. G. C. (27/1).—In order to avoid liability to medicine-stamp duty in the case of a headache powder consisting of a mixture of heavy magnesia and acetylsalicylic acid, the conditions regulating the sale of "known, admitted and approved" remedies unstamped by chemists must be complied with (*C. & D. Diary*, 1932, p. 314). These require the publication of the full formula, with the amounts, on the label and also on the wrapper, if any, together with the words "no proprietary rights are claimed in the preparation of this medicine." On the other hand, if the powder consists of acetylsalicylic acid alone, without any admixture whatsoever, it would come within the exemption covering "entire drugs."

J. B. H. (15/2) was employed by a chemist as a qualified manager, at a weekly salary. On February 8, he gave his employer a month's notice terminating the engagement. Five days later, his employer asked him if he intended to open a business of his own in the district, and upon receiving a reply in the affirmative gave him a week's salary and told him to go immediately. Has "J. B. H." a claim for the balance of the month's salary? [In our opinion "J. B. H." was entitled to a month's salary as from February 8, and can still claim the balance due to him, unless he accepted the amount paid to him in full satisfaction. It is a question of fact, depending upon the circumstances, whether by accepting the week's salary he has forfeited his right to the full month's salary.]

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," April 15, 1882

The Home Office Takes a Hand

Subjoined is a copy of a circular which has been issued from the office of the Secretary of State for Home Affairs to the secretaries of various institutions and other persons:—

Whitehall March 21, 1882.

Sir,—I am directed by the Secretary of State to request that you will be so good as to bring before the . . . the subject of the Sale of Poisons, and report to the Secretary of State whether that body has any suggestion to make for the amendment of the law relating thereto. . . .

Copies of the above have been sent to the College of Physicians, the College of Surgeons, the Society of Apothecaries, the Pharmaceutical Society, the Institute of Chemistry - - - .

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Sales of Snowfire Glycerine Jelly will never disappoint you. Each week sees a gratifying increase. Women everywhere are using Snowfire Glycerine Jelly in the daytime because it is unequalled as a protection against dry, roughened skin and chapped hands. Display it and watch results. And Snowfire Tablet and Soft Snowfire for use at night, also show a brisk turnover with splendid profit.

Snowfire
GLYCERINE JELLY (*Vanishing*)

SNOWFIRE TABLET *and* **SOFT SNOWFIRE**
Made by F. W. Hampshire & Co., Limited
Sunnydale Works, Derby
AGENTS.: Canada—Wilfred Noble & Co., 208 Victoria Street, Toronto
Australia—Messrs. Salmond & Spraggon (Australia), Ltd. 218 Kent Street, Sydney, N.S.W.

THIS HOUSEHOLD REMEDY HAS A BIG SALE

Cephos
Pronounced See-foss REGD
THE PHYSICIAN'S REMEDY

Retails at 1/3 and 3/- in powders or tablets

For
RHEUMATISM
INFLUENZA
NEURALGIA
NEURITIS
LUMBAGO
SCIATICA
COLDS

from your usual wholesaler or write direct

SHOWCARDS & DISPLAY MATTER
Sent upon application to Cephos Ltd., Blackburn, whether you obtain supplies from us or elsewhere.

Cephos Ltd. Blackburn

ROBERT FERBER, LIMITED

INCORPORATING JULES DENOUAL & CO. AND THE GALEN MF'G. CO.

Manufacturers of

MEDICINAL CAPSULES—MEDICATED PASTILLES AND LOZENGES

❖

CARBON TETRACHLORIDE CAPSULES

The officially recognised remedy for Liver Fluke in Sheep and Cattle

❖

BLENOSAN CAPSULES

Containing the finest quality East Indian Sandal Wood Oil together with a specially prepared Oleo-Resin of Kava-Kava

PRICE LIST ON APPLICATION

CARLTON WORKS - ASYLUM ROAD - LONDON, S.E.15

SOUTH AFRICA

is steadily becoming a manufacturing country. The high tariff, just increased, fosters local industries and stresses the necessity for overseas Houses with important South African trade to explore the probable advantage of local manufacture. We already produce in South Africa for British and American proprietors many important Medicines and Toilet articles and have ample facilities at our Port Elizabeth Factory for more work. We can also distribute with maximum efficiency.

LENNON LIMITED

Head Office, CAPE TOWN

Branches throughout South Africa.

London Office,
12/14 Lafone St., London, S.E.1

Matthews & Wilson (1931) Ltd.

(*Established* 1894)

Manufacturing Chemists,

6/8 Cole St., LONDON, S.E.1

FOR ALL

PILLS & TABLETS

BY THE GROSS
THOUSAND OR MILLION

ARCHANIUM

RECOGNISED BY MANY DOCTORS AS THE

BEST REMEDY *for*

RHEUMATOID ARTHRITIS, OSTEO-ARTHRITIS, LUMBAGO, SCIATICA, NEURITIS, RHEUMATISM.

Liberal Terms: Write for full particulars to:
Distributors: **STAPLETON & SON, Yew Tree Rd., SOUTHBOROUGH, Kent.**
Rep. in Ireland: R. I. VINT, 6 Elgin Rd., Dublin.

NEW

CHEMISTS ASKED FOR THIS LARGER SIZE . . . .

SEVERAL Chemists told us that the **1/-** pocket tin should have even a better sale than the **6d.** tin. They were right !

So far, where we have been able to question our clients, all report better business with the larger tin. Human nature is a wonderful thing when money is being spent !

We recommend the **1/-** tin. It is a nice size, holds more than double the quantity of the **6d.** tin and . . . sells more readily. Supplied six in a dignified display box, as our illustration.

This applies only to Sister's Throat Pastilles. The other popular Galen Products (Mitcham Mints and Cinnamon Tablets) are still **6d.** lines.

All are obtainable at usual trade discount, from your Wholesaler or direct from the manufacturers

Galen purity is unquestioned. Galen value is high amongst the best.

The GALEN PRODUCTS CO. LTD., STOCKPORT

G.P.4

Approved by Doctors everywhere, and now nationally advertised for Bigger Sales!

Since its inception Mistol has been approved and prescribed by physicians everywhere for speedy relief of colds and catarrh.

National advertising will now advise and remind nearly two million families—twice each week—of Mistol's effectiveness.

Demand for Mistol is growing rapidly on this enlarged market. Window displays identify your store with this national advertising—more sales and profits result.

For Colds, Nasal Catarrh, Coughs, Laryngitis, Bronchitis, Hoarseness.

Mistol

STEMCO LIMITED, 128, ALBERT STREET, CAMDEN TOWN, N.W.1.

The NUMOL Stand at the Chemists' Exhibition, 1931. Supplies of advertising material shown on this photograph may be obtained by writing to the Advertising Department,

NUMOL LIMITED
Newcastle-on-Tyne, England.

YOU WILL BE ASKED TO DISPENSE

Rx Arcolax

A natural Vegetable product for the treatment of Habitual Constipation.

We are providing the Medical profession with samples and full information.

Be ready to supply.

IN BOXES RETAIL 3/4

Prepared and extensively advertised by

ROBERTS & CO.

Pharmaciens

76 NEW BOND ST., LONDON, W.1

and at PARIS

AN ANTI-'FLU CRUSADE IS NOW ON

STICK UP YOUR STICKERS PUT IN YOUR WINDOW-SHOWS

Business is stirring—health service is required. There are ten times more people needing 'ASPRO' at the present time than at most times. We are alive to it—OUR ANTI-FLU CRUSADE IS IN FULL SWING. Our advertising appropriation has been increased commencing with half pages in the leading dailies—featuring colds, 'flu and rheumatism. Altogether 32 MILLION PEOPLE are being appealed to through over 300 papers. You can obtain TREMENDOUS business NOW by keeping in your 'ASPRO' window-show and putting up window stickers to make contact with this great advertising and sales creating movement.

HERE ARE SOME OF THE SEASONAL ADVERTISEMENTS NOW APPEARING

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents: GOLLIN & CO. PTY. LTD. ('Aspro' Dept.)
SLOUGH, BUCKS. *Telephone: SLOUGH 608*

Made by ASPRO LTD., SLOUGH, ENGLAND.

No proprietary right is claimed in the method of manufacture or the formula.

'ASPRO' REG. TRADE-MARK

Waterglass

NOTE THE SOUND, SOLID, LEVER-LID TINS.

WHATEVER YOU HAVE DONE OTHER YEARS 'LET GOODALL'S QUOTE' THIS.

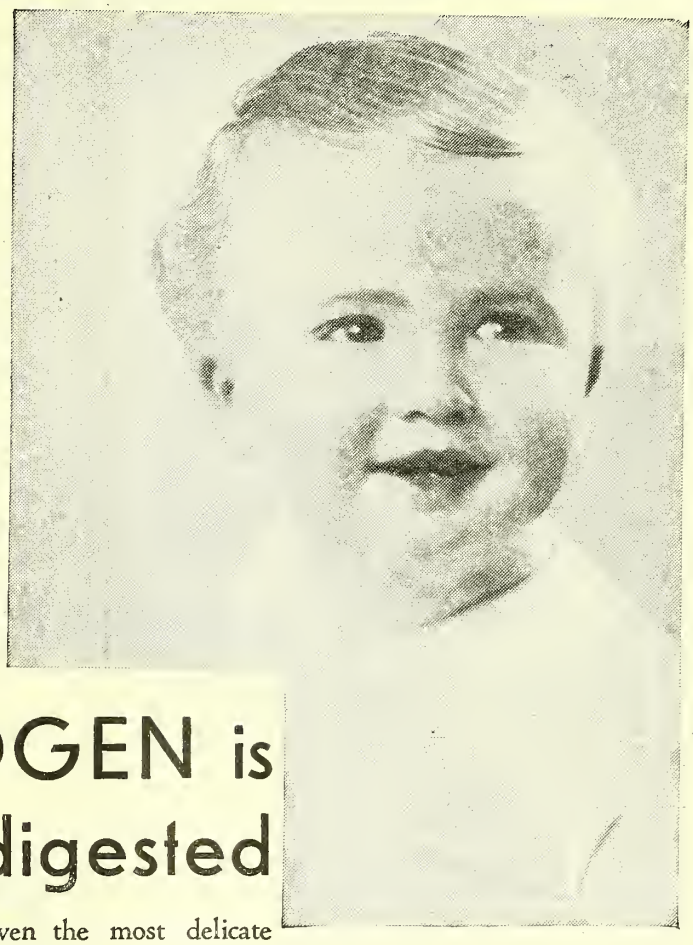
GOODALL'S—
the great name in
WATERGLASS

let Goodall's quote.

GOODALL, BACKHOUSE & CO., LEEDS

FACTS

YOU CAN TELL YOUR CUSTOMERS ABOUT LACTOGEN



Why LACTOGEN is so easily digested

Lactogen is very easily digested by even the most delicate Baby, because the special Lactogen emulsifying process breaks up the large fat globules natural to liquid cow's milk, into very finely-divided and widely-dispersed form. The curd formed by Lactogen is very fine and flocculent, just like breast milk; having been modified by the Lactogen process. The condition of both the fat and the curd in Lactogen promotes easier and quicker digestion.

The demand for Lactogen is growing every day. Doctors, Chemists and Nurses all over the country recognise its genuine merit and recommend it enthusiastically. Babies thrive on it—therefore Mothers praise it, buy it, and tell their friends about it.

"LACTOGEN"

REGD. TRADE MARK

BETTER MILK FOR BABIES

Lactogen—prepared by Nestlé's—is a modified dried milk for use in infant feeding.

2/9 PER TIN **P.A.T.A.**

Send to-day for full particulars and terms to the Lactogen Bureau (Dept. AZ54 Nestlé and Anglo-Swiss Condensed Milk Co., 6 & 8, Eastcheap, London, E.C.3.

Big turnover from "Oambroo" BEER!

There is no question or doubt about the phenomenal success of "Viggormalt." Week by week more and more chemists add "Viggormalt" to their best-selling lines.

VIGGORMALT
FOR PROFITS!

The reason for the huge demand for "Viggormalt" is not far to seek. "Viggormalt" is infinitely superior to any preparation of a similar nature hitherto offered to the public. It makes genuine, flavourful, stimulating Beer (Ale or Stout) with simplicity and certainty.

Don't miss your share of the increasing "Viggormalt" business. Obtain supplies at once, and display them to link up with the advertising which is appearing regularly in national journals.

NO MILLING MASHING BOILING or FILTERING

Distributors :
FASSETT & JOHNSON LTD.
86 Clerkenwell Road
London, E.C.1

Sole Manufacturers :
VIGGORMALT LTD.,
Davigdor Rd., Hove, Sussex

LOSALL'S SALT

SELLS FREELY AND READILY.
PAYS 50% ON OUTLAY.

An infallible remedy for

Gout
Rheumatism
Eczema & Skin Affections

P.A.T.A. doz. net
4 oz. tins 1/-, 8/-
8 oz. ,, 1/9, 14/-
Bottles 2/-, 16/-

Attractive advertising matter supplied on application.

SOLD EVERYWHERE.

Manufactured by
LOFTHOUSE & SALTMER, Ltd.
HULL.

Paraffinum Liquidum B.P.

ALL GRADES
SAMPLES & PRICES
On application to —

STERNS LTD

16 Finsbury Square London E.C.2

WHOLESALE ONLY

The 'Ovaltine' Egg Farm

EGGS are a most important ingredient in the manufacture of "Ovaltine." More than twelve and a half million eggs are used each year, and to ensure that these shall be the best and finest obtainable the "Ovaltine" Egg Farm—extending over 300 acres—has been established.

This is adjacent to the "Ovaltine" factory at King's Langley. Nestling amidst the beautiful Hertfordshire countryside more ideal situations for farm and factory could not possibly be chosen. It is manifest everywhere that the utmost advantage has been taken of Nature's gifts and the scientific invention of man to safeguard the high quality of "Ovaltine" and the World-wide reputation it enjoys.

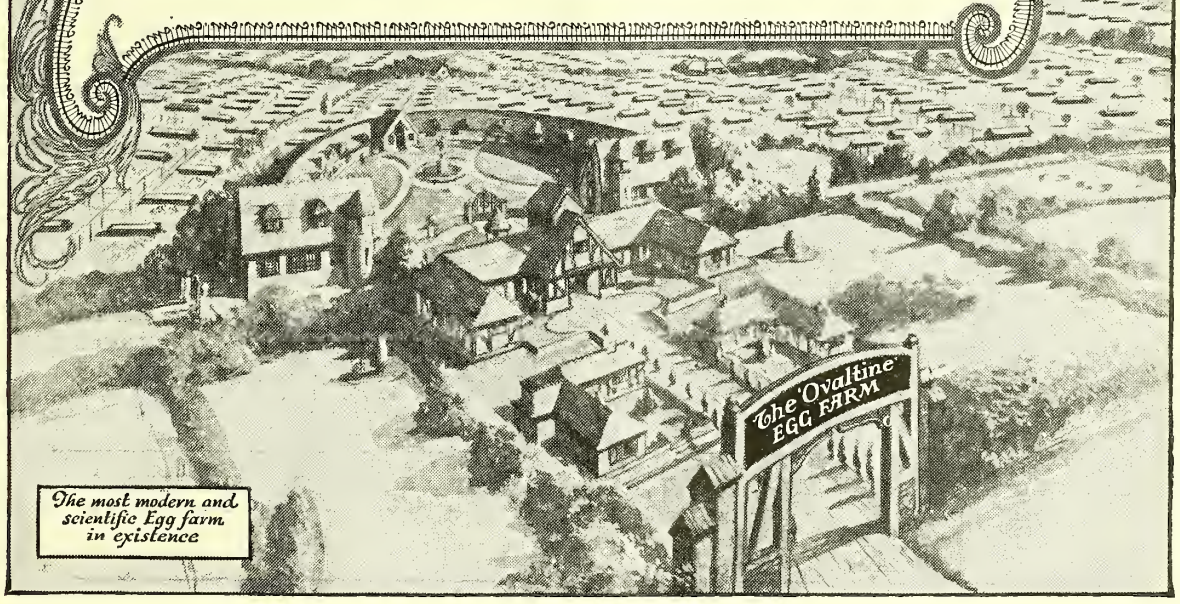
Like the "Ovaltine" factory the Egg Farm is the most modern and scientific in existence. The same meticulous care that is observable throughout the factory is extended to this farm.

It is a real pedigree farm. Only birds of prize-laying strains are used. The fertile eggs are hatched and the chicks reared under the most ideal and scientific conditions possible. Before long the full complement of 100,000 hens will be laying eggs for use in the manufacture of "Ovaltine." The hens are fed on the most modern and scientific principles, so that the eggs possess all the virtues which a perfect egg should have. Even the land that is allotted to each colony of one hundred birds is divided. When one half is in use the other is lying fallow. A move is made from one to the other at intervals, so that the birds are always running on fresh grass. The hen houses are kept spotlessly clean and are designed to give the maximum of sunshine and fresh air, while providing the proper degree of warmth.

The specially prepared malt extract used in the manufacture of "Ovaltine" is made from the finest English barley. The milk is fresh creamy milk from selected English dairy farms. And now the eggs will be the finest eggs obtainable—collected and used the day they are laid to ensure absolute freshness.

The quality of the ingredients used in "Ovaltine" must always be the best, for this supreme tonic food must be as far ahead of other preparations in this respect as it is in the intricate and exclusive process by which it is manufactured. The wonderful hygienic conditions which obtain throughout the factory cannot possibly be surpassed.

It is most important to note that "Ovaltine" contains no added sugar. It must not be compared with food combinations containing a high percentage of sugar to give them bulk and cheapen the cost. There is only one "Ovaltine"—there is nothing "just as good." Keep this profitable and quick-selling line prominently displayed.



The most modern and scientific Egg farm in existence

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.

22 Water Street LIVERPOOL. | 523 Salisbury Hse. Finsbury Circus LONDON. | Deansgate Arcade MANCHESTER. | Martineau Street BIRMINGHAM. | Wellington Chambers LEEDS.

The **CLAROCIT SALES CAMPAIGN**

"Clarocit your glasses and See" is the slogan of the new advertising campaign. A boon to all who wear eyeglasses and spectacles.

ATTRACTIVE BAKELITE DISPLAY STANDS, COUNTER CARDS AND INTERESTING SALES LITERATURE SUPPLIED FREE ON REQUEST

THE CLAROCIT CO., LTD.
110 Great Portland Street, LONDON, W.1

OILS

OLIVE B.P.
CREAM SUBLIME
COTTON B.P.C.
CASTOR
CODLIVER NORWEGIAN & CATTLE

DISTILLED WATER in perfect condition from our own stills. Large plant providing quantities for immediate despatch to all parts
We solicit your enquiries for drysalteries generally

FRANCIS F. FOX & Co LTD
BRISTOL & BIRMINGHAM.
ESTABLISHED OVER 100 YEARS

CERESINE WAX

REGISTERED FOR OUR WELL-KNOWN BRANDS OF CERESINE WAXES.

WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES AND RESIDUE
BEESWAX WHITE, YELLOW AND COMPOSITION PARAFFIN WAX ALL MELTING POINTS
OZOKERITE WAX ALL GRADES

POTH, HILLE & CO., LTD.,
6 Lloyd's Avenue, London, E.C.3. *Works at Stratford, E.*

By Appointment to His Majesty the King

W. B. DICK & CO. LIMITED

26 GROSVENOR GARDENS - - LONDON, S.W.1
Telephone—Sloane **3461** (*7 lines*). *Telegrams—"Dicotto, Sowest, London."*
GLASGOW LIVERPOOL NEWCASTLE CARDIFF & NEW YORK

Send for samples and Quotations (Wholesale only)

PARAFFINUM LIQUIDUM B.P.
All Specific Gravities Guaranteed to remain bright at 0°C

B.P. WHITE & YELLOW PETROLEUM JELLIES

WHITE & HALF WHITE OILS

METHYLATED SPIRITS
and
FINISH

FINEST OBTAINABLE
PROMPT DELIVERIES

J. M. Mills Ltd
BROOKFIELD DISTILLERY
STOCKPORT
Telephone: Stockport 2396
Telegrams: "Phone, Aniline"

PETROLEUM JELLY
("SALVO PETROLIA")
BRAND

THE PERFECTION OF PETROLEUM JELLY.
MANUFACTURED SOLELY BY
THE DEE OIL Co. Ld.
D 23 & 24 EXCHANGE BUILDINGS
LIVERPOOL
TELEPHONE:- CENTRAL 3859
TELEGRAMS:- "CESTRIAN."
LONDON OFFICE
11 POULTRY, CHEAPSIDE, E.C.2. PHONE: CITY 8455
PACKED IN BARRELS, KEGS OR SMALLER PACKAGES IF DESIRED.
OTHER GRADES OF PETROLEUM JELLIES, WHITE BASES ETC.
WHITE OILS B.P. & Technical Qualities
SAMPLES & PRICES ON APPLICATION
OLEUM DEELINÆ (DEE OIL)
THE UNFAILING CURE FOR ECZEMA

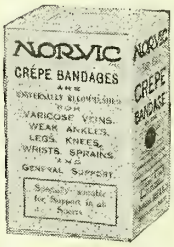
Best sellers
The public is asking for ZEAL CLINICAL THERMOMETERS because they are:-
GUARANTEED TO STAY ACCURATE
CONSISTENTLY ADVERTISED

We are giving the Chemist publicity!
THERE IS STILL TIME TO ORDER
SOL-VO
TOILET PAPER
ON THE
SPECIAL BONUS TERMS
FORD, SHAPLAND & CO. Ltd.
Specialists in Chemists' Printing 90 Years,
GT. TURNSTILE, HIGH HOLBORN, W.C.1

SOL-VO

"SURCO"
RELIABLE
ELASTIC HOSIERY
SEAMED & SEAMLESS
For special garments to measure we maintain a 24 hour service.
:: BODY BELTS ::
TRUSSES :: SUNDRIES
Write for Catalogue.
SURGICAL HOSIERY CO., LTD.
Russell Street :: NOTTINGHAM
Telephone No.: 75903. Telegrams: Surgical, Nottm.

Protected Prices — assured Profits
DISPLAY
NORVIC Regd
BLUE CARTON CRÊPE BANDAGES & BINDERS
Full 33⅓% P.A.T.A.



From the leading wholesalers
Sole manufacturers:—Grout & Co., Ltd. 35 Wood St., E.C.2.

SANITARY TOWELS
made by
The ORIGINAL and Most Popular
The "K." All wool in knitted cover, very soft.
The "CELTEX." Made of Cellulose for easy disposal.
FROM YOUR WHOLESALE HOUSE, PLEASE
SOUTHALLS

SALES—SATISFACTION

for YOU

When you sell Sherley's Dog and Cat Medicines you have the satisfaction of knowing that your Customers will be Satisfied, and they will come again. These popular lines are renowned for their Purity, Safety and

for Your Customers

Efficacy, and the Extensive Advertising Campaign which is always in operation ensures a steady and continuous demand. They show good profits and are supplied on terms which eliminate all risk of loss.

DOG OWNERS ARE INSISTING ON SHERLEY'S

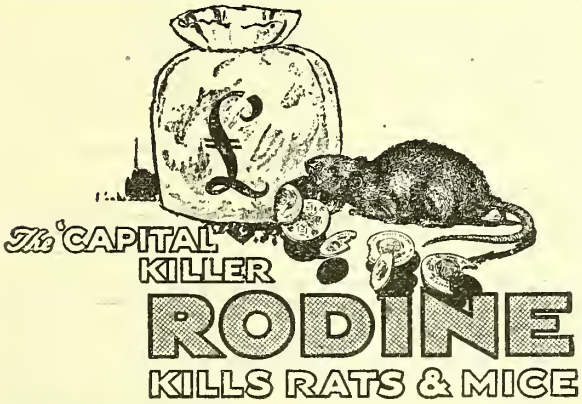
SHERLEY'S

DOG & CAT MEDICINES

QUANTITY TERMS
—are available for SHERLEY'S Tonic & Condition Powders and Worm Remedies—now packed on attractive Display Cards. Also for £2 Assorted Parcels.

Full Literature and Sales-Compelling Show Cards are available. Send a Postcard for particulars to :—
A. F. Sherley & Co., Ltd., 18 Marshalsea Road, LONDON . . . . S.E.1.

LACTOL AND LACTOL BISCUITS



STRIKING DISPLAY—
RESULTED IN ADDITIONAL SALES

Mr. F. B. GRAY, Chemist, Cathcart Road, Glasgow, writes :—*8th February*, 1932. I thank you for the use of the Piper and Rat Models. They made a very striking display and resulted in a great many additional sales of Rodine."

Buy Rodine on best terms and ask for the new Display Outer, in colours, entitled "The 'Capital' Killer."

Send direct to the Sole Maker and Proprietor :—

T. HARLEY, M.P.S.
Rodine Works, **PERTH**, Scotland.

Why **CATALINE** Pays to Stock

BECAUSE it enjoys the largest sale of any Cattle Medicine Preparation and is on the **P.A.T.A.**

BECAUSE it is consistently advertised and all advertisements refer to the Chemist as the source of supply.

BECAUSE it is well packed, does what it is advertised to do, and shows the trade a satisfactory profit.

BECAUSE we do not employ travellers to call on Farmers or solicit orders at cattle fairs or markets.

One size, retailed at face value, viz. : 3/9 per bott.

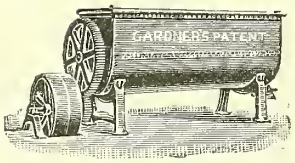
Cash with order terms.

1 doz. 36/-, 3 doz. at 35/6, 6 doz. at 35/-, 12 doz. at 34/6 per doz.
CARR. PAID. CASES FREE.

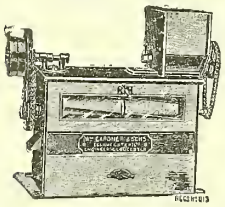
Stocked by most Wholesale Houses.

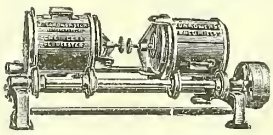
THE CATALINE CO., LTD., Bristol

GRINDING SIFTING MIXING



Patent "Rapid" Mixer.


Patent "Rapid" Sifter.


Gardner Ball Crushing Mill.

for Chemical purposes must be rapid, superfine, of laboratory accuracy, and absolutely consistent.

Gardner machines perform all these operations in the most efficient way.

They are economical and efficient; a high standard is maintained in the quality and quantity of their output.

Details and Catalogue of all Gardner plants from

WM. GARDNER & SONS (Gloucester) LTD.

BRISTOL ROAD, GLOUCESTER

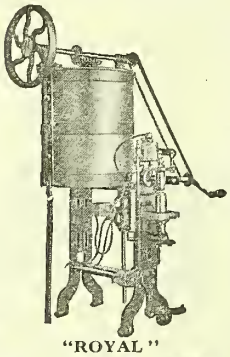
Telephone: 2288 (2 lines).
Telegrams: "Gardner, Gloucester."
London Office: 19 Gray's Inn Chmbrs. 20 High Holborn, W.C.1.
Telephone: Chancery 7347.

Roberts' Original Patent
BOTTLE FILLING MACHINES

The record makers in speed filling with cleanliness. Foot-Operated Machines. From £5 5s. Hand-Operated Machines. From 36/-

Soundly constructed, simple in action, easy to clean.

NEW PATENT SHALLOW TIN FILLING MACHINES


"ROYAL"

Automatic CAN FILLING MACHINES, MIXING MACHINES, CORKING MACHINES.

NEW PATENT ACCESSORIES TO "NELSON," "VICTOR" and "NAVY" BOTTLE FILLING MACHINES enable them to be used as Vacuum Fillers, Gravity Fillers or Pressure Fillers at will.

WRITE TO-DAY TO

ROBERTS' PATENT FILLING MACHINE CO.

33 Roundcroft Street, BOLTON, LANCS.

All rights reserved.

BUY BRITISH

PYRAMID CORKS

TRADE MARKS

are better than ever.

6 and 8 oz.

N.H.I. 5d. per gr.
Ordinary 8¾d. ,,
Fine 1/1½ ,,
Finest 1/8 ,,

10 gross carriage paid.
20 gross - - less 5%.

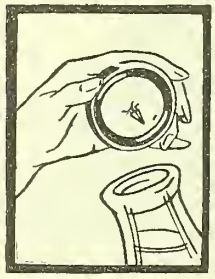
Less 5% cash with order.

Write for full Price List and Size Gauge

N. W. Mitchell & Snow, Ltd.
"The Cork Firm."
Limehouse, London, E. 14.

PYRAMID
TRADE MARK

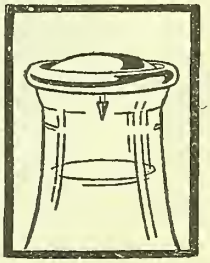
"PRESTOP"
Milk COVER & Cardboard disc REMOVER



6d.

FITS ALL SIZES.

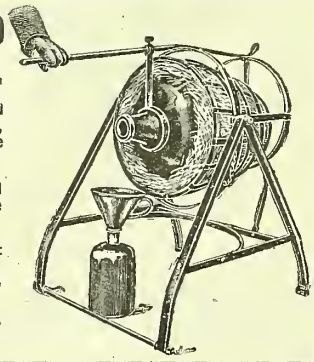
Manufacturers:
T. WEBSTER & CO., LTD.
Diamine House, Middle Lane, Hornsey, London, N.8



CARBOY STAND AND TILTER.

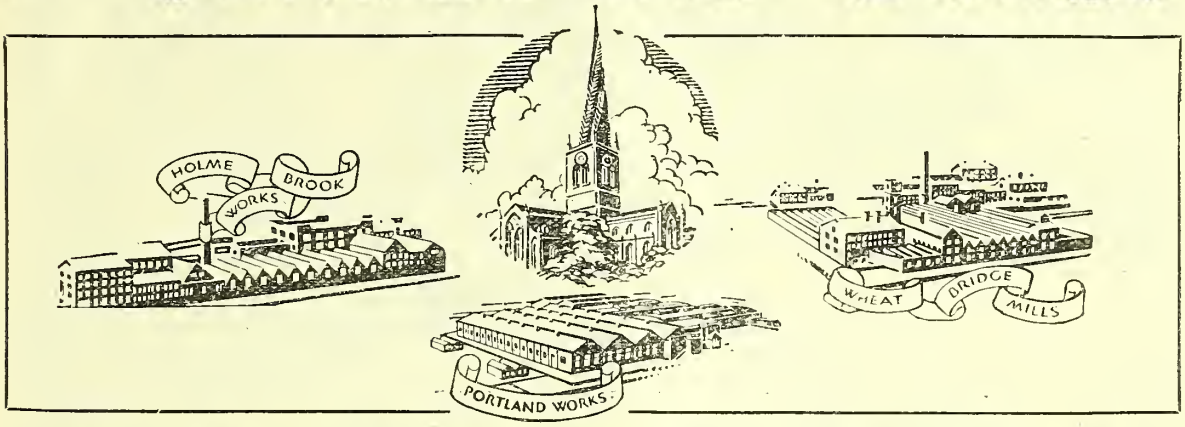
For drawing off small quantities of acids, etc., from Carboys, with ease and safety.

The Carboy can be tipped to any position with one hand.



R. & H. LEIGH & SONS,
LIMITED,
Carboy Hamper Manufacturers,
BOLTON.

FOR CARDBOARD BOXES



ROBINSON & SONS, LTD.
WHEAT BRIDGE MILLS
CHESTERFIELD & LONDON

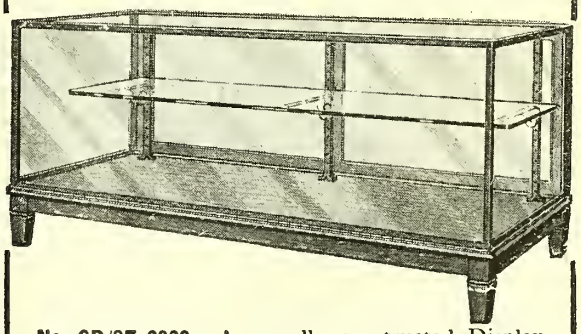
ESTD 1817

SPECIALISTS
WILKINSON'S
PHARMACISTS' PRINTING.

We quote, and are quoted. for Excellent Workmanship.

JAMES F. WILKINSON,
PENDLETON, MANCHESTER.

GLASS COUNTERS BRING MORE TRADE



No. CD/SF 2920. A soundly constructed Display and Serving Counter made in our own works at Holloway Road—6 ft. × 3 ft. × 2 ft. oak or mahogany framing, glazed new ¼" drawn plate glass top, front, and ends. Clear glass sliding doors at back. Interior fitted 1 row of shelves 12" wide, brown bronze bars and brackets.

DEFERRED TERMS.
An initial payment of 18/10 secures this counter, and 11 further equal monthly payments of the same amount make it your own complete property.

£10-15-0
Cash Price. Ex. Works.

Send for our New List No. C.D.1260.

DUDLEY & COMPANY, LIMITED
451 HOLLOWAY ROAD, LONDON, N.7
City Showrooms: 65-66 FORE STREET, E.C.

The PERFECT PAIR for every BOTTLED PRODUCT

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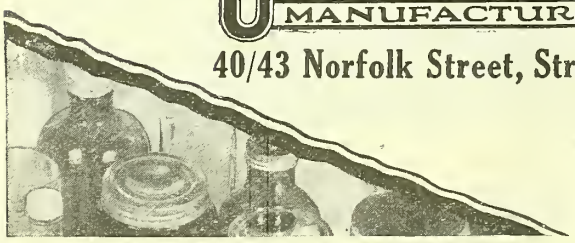

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THE CHEMIST AND DRUGGIST SUPPLEMENT

28 ESSEX ST.
LONDON, W.C.2

APRIL 2, 1932.

This Supplement is inserted in every copy of The Chemist & Druggist.

THE CHEMIST AND DRUGGIST SUPPLEMENT

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3.—BROMLEY (Near).—General Retail and Dispensing Business with Wine Licence; established 10 years; returns approach £3,000; chartered accountant's figures; gross profits 35 per cent.; stock and fixtures worth about £1,000; lock-up shop; long lease; moderate rent; valuation terms entertained.

4.—WIMBLEDON (Near).—General Retail and Dispensing Business with small Optical connection; net profit about £580 per annum; double-fronted shop, well fitted and stocked; comfortable living accommodation; long lease; moderate rent; price about £1,300.

5.—HERTS.—Country Retail and Dispensing Business; newly established; returns £23 weekly; growing district; attractive double-fronted shop, well fitted and stocked; flat over; price of business about £850; property must also be purchased; existing mortgage can be taken over.

6.—SURREY.—Middle- and working-class Business with Kodak Agency; returns first year £788; large double-fronted shop; stock and fixtures worth about £300; good living accommodation; price of business about £300; property must also be purchased, £400 down and £600 on mortgage.

7.—FINCHLEY.—High-class Retail and Dispensing Business; returns between £21 and £23 weekly with scope for large increase; gross profit about one-third; living accommodation; held on long lease at rental of £170; price £650 cash; ill-health cause of sale.

8.—HANTS.—Good-class County Business; old established; returns under management exceed £3,000 per annum, with average gross profit £1,124; rent £90; sub-let £45; price about £1,950; the vendors also have two other Businesses returning approximately £5,750 and £1,700 respectively in the same county; the concerns can be bought as a group or separately. Further details on application.

9.—HAMPSHIRE.—General Retail and Dispensing Business, returning upwards of £2,500 per annum at usual prices; long lease; good living accommodation; double-fronted shop, handsomely fitted and heavily stocked; vendor will accept lump sum or valuation terms.

10.—EASTERN COUNTY.—Good medium class Business returning approximately £3,000 per annum with scope for large increase; good living accommodation; long lease; low rent; price £2,600 cash.

11.—YORKSHIRE.—General Retail and Prescribing Business with Kodak Agency and Optics; working-class district; returns about £2,240 per annum, of which about £500 is from Optical; good profits; rent 16s. weekly; price asked £1,600.

12.—BOURNEMOUTH (Near).—Drug Store; returns last year £1,579, with gross profit £633, under management; new lease at £75; price £750.

13.—NORTH DEVON.—Retail and Dispensing Business with side line; large double-fronted shop, well fitted and stocked; vendor owns the property and wishes to sell same; returns £2,350; audited accounts; net profit about £500; price about £1,500.

14.—SOUTH COAST.—General Retail and Dispensing Business; returns average £24 weekly, with net profit about 25 per cent.; rent £110; sub-let 22s. 6d. weekly; held on lease; price £800 or near offer.

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3.—HAMPSHIRE.—Three good Businesses for disposal, either as a whole or separately; combined turnover exceeds £10,000. Further particulars to bona-fide applicants enclosing references.

4.—MIDLANDS (Market Town).—Good middle-class Retail, in main street; returns about £1,750, increasing; net profit £480; corner shop; well stocked; same hands 20 years; price £900.

5.—SOUTH COAST.—Light Retail and Dispensing, with Kodak Agency; in central position; returns last year average £24 weekly; plenty of scope; attractive modern pharmacy; no near opposition; owner leaving Retail; price £700, or first reasonable offer.

6.—HOME COUNTY.—Old established Chemist's and Stationery Business; practically unopposed; returns last year £2,437; net profit about £600; large house and shop; low rent; selling solely through family reasons; price £1,200; recommended.

7.—HERTS (Few Miles Out).—Middle-class Family Retail and Prescribing, with N.H.I.; returns £1,550; net profit £450; low expenses; on lease; good stock; price £850; personally recommended.

8.—WIMBLEDON (Near).—Good-class Retail, Dispensing and Photographic; returns, last year, £2,090; net profit £450; one assistant kept; rent £80; long lease; good house and pharmacy; price £1,300, or near offer.

9.—NORTH LONDON (Near Tally Ho).—Newly-established Business; must be sold through owner's serious ill-health; present returns £21 to £25 weekly; in new and growing district; stands to do £40 weekly; stock and fixtures worth £500; price £650, or best offer.

10.—LONDON, W.—Good-class Retail and Dispensing Business; returns last year over £2,200; good profits; modern fitted pharmacy; well stocked; long lease; price £1,100, or close offer.

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3.—LIVERPOOL.—Recently opened retail business in City. Turnover £9 per week. Stock £475. Fixtures and Fittings £46 approx. Rent £125 p.a.; Rates £90 p.a.

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Correspondence is invited from prospective purchasers relative to the following businesses for disposal:—

(C1) LONDON, W.—Old-established high-class dispensing business with good living accommodation; present returns approximately £32 weekly; there is, however, good scope for substantial increase under up-to-date proprietorship; reasonable purchase price; owner retiring. (Visited and recommended.)

(C2) BOURNEMOUTH (NEAR).—Recently established business, well situated in growing residential area; good living accommodation; no near opposition; reasonable purchase price to include freehold, upon which the transfer of an existing mortgage can be arranged. (Awaiting visit.)

(C3) BRIGHTON.—High - class dispensing business showing returns of approximately £3,000 per annum; rent, £125; accountant's figures available; living accommodation; good reasons for disposing. (Awaiting visit.)

(C4) LONDON, S.W.—Good retail business with main road position; present turnover approximately £30 weekly (all cash); genuine scope for increase; purchase price approximately £700; audited accounts available. (Visited and recommended.)

(C5) LONDON, S.W. (few miles out).—Mixed business showing present returns of £20 to £25 weekly and increasing; no opposition; large population to draw upon; living accommodation; excellent scope for increase and development; purchase price, £525; trial if desired. (Visited and recommended.)

(C6) WORCESTERSHIRE.—Old-established high-class dispensing business; returns for 1932 financial year upwards of £2,800; extensive living accommodation with large garden; moderate rental; no near opposition; premises situated in healthy locality. (Awaiting visit.)

(C7) YORKSHIRE (POPULAR SEASIDE RESORT).—Recently established pharmacy (lock-up), showing average returns for the past twelve months of approximately £20 weekly; rent, £55 per annum; price £400. (Awaiting visit.)

(C8) LONDON, E.—Turnover approximately £40 weekly; main road situation; high percentage profits; trial if required. (Visited and recommended.)

(C9) PORTSMOUTH (NEAR).—Old-established retail business at present doing approximately £50 weekly; good lease, and scope for increase; reasonable purchase price (approximately £1,600). (Visited and recommended.)

(C10) DERBYSHIRE.—Established retail business in small country town; turnover, £2,200; net profit, £450; no opposition; good living accommodation; reasonable purchase price. (Visited and recommended.)

(C11) KENT (MARKET TOWN).—Pharmacy with optical connection doing approximately £40 weekly; good living accommodation; rent £80 per annum on long lease; purchase price approximately £950, or near offer. (Awaiting visit.)

(C12) LONDON, N.W.—Retail and dispensing business showing average returns of approximately £2,200 per annum; lock-up shop; moderate rental on long lease; reasonable purchase price. (Visited and recommended.)

(C13) ESSEX (SEASIDE RESORT).—Pharmacy with living accommodation, well capable of substantial increase; excellent scope for energetic go-ahead pharmacist, as the business has previously shown very high returns, and the opportunities still remain; reasonable purchase price. (Awaiting visit.)

(C14) NORFOLK.—Old-established; turnover approximately £2,000; good living accommodation; purchase price, £1,650; owner retiring. (Visited and recommended.)

(C15) BRIGHTON.—Modern pharmacy with average returns of approximately £25 weekly; good percentage profits and scope for increase; reasonable purchase price. (Visited and recommended.)

(C16) LONDON, E.C.—City business doing approximately £40 weekly; quick counter trade; purchase price, £1,000 or near offer. (Awaiting visit.)

(C17) SUSSEX.—Good profit-earning business doing approximately £32 weekly; living accommodation; rent, £35 per annum; reasonable purchase price. (Visited and recommended.)

(C18) LIVERPOOL (NEAR).—Old-established retail business for disposal on account of contemplated retirement; average returns approximately £1,600 per annum; net profits exceed £400; good living accommodation; excellent scope for further increase; purchase price approximately £1,000, including stock and fixtures estimated at £700. (Awaiting visit.)

(C19) HAMPSHIRE COAST.—Turnover approx. £1,250; good living accommodation; small optical connection; good class trade; genuine scope for increase; purchase price £850, including stock and fixtures estimated at £730. (Awaiting visit.)

(C20) HERTS.—Turnover, £1,700; net profits, £550; living accommodation; rent, £85, on lease; reasonable purchase price. (Awaiting visit.)

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VALUATIONS for sale, purchase, probate, and Income Tax purposes, personally conducted in any part of the British Isles.
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BUSINESSES (all districts) available and required.
Enquiries invited.

BUSINESSES FOR DISPOSAL.

BOLTON (Near).—Genuine Chemist's Business, with or without living accommodation; average takings over £20 per week; N.H.I. 600 last month; rent and rates £50 per annum; good scope for Optics; growing district. Apply for further particulars to 165/31, Office of this Paper.

BRIGHTON.—An unusual opportunity; smart, modern, attractive shop, in busy main road in centre of town; well fitted and stocked; Kodak Agency; unopposed; nearest to very large residential neighbourhood; turnover steadily increasing; returns for the last year £1,227; net profit £275; 2,702 N.H.I. scripts. 165/14, Office of this Paper.

CITY OF LIVERPOOL.—Lock-up Pharmacy; no living accommodation; takings £35 per week and increasing; unlimited scope; good lease; rent and rates total £160 per annum; well fitted and stocked good class; practically all cash; price fixtures and goodwill £600, plus stock at valuation; good proposition for genuine buyers. Apply 165/15, Office of this Paper.

DONCASTER.—Family Chemist's Business, established 100 years, for Sale at valuation only; premises opposite Boots; rent £400 per annum. Apply J. H. Crouch & Son, 6 Hallgate, Doncaster.

EAST LANCS TOWN.—Old-established Retail Chemist Business; turnover £1,700 (1932); main street; nicely fitted; good Dispensing, Toilet and Photographic trade; double-fronted; £400, plus stock at valuation, about £400; good reasons for disposal. Further particulars on application. Apply 165/36, Office of this Paper.

EAST YORKSHIRE (Seaside Resort).—Modern Drug Store for immediate disposal; best shopping centre; double-fronted, well fitted and stocked; good profits; returns season £18 to £30 weekly, winter £9 to £10, steadily increasing; rent £36 yearly and rates (lock-up); price for stock, fixtures, goodwill £265 (no offers); good reasons for disposal. 165/35, Office of this Paper.

LEICESTER (main road).—Suburban Business; Kodak Agency, Medicated Wine Licence; long lease; £65 per annum, including rates; stock at valuation; approximate price, including fixtures, £400. Particulars of takings and full information, A. C. Palmer & Co., Chartered Accountants, Friar Lane, Leicester.

LONDON, S.E.—Main thoroughfare; thickly populated; scope for increase; large Panel; Kodak Agency; large and well-fitted shop and basement; returns £2,000, under management; price £1,500; reason for disposal, ill-health. Apply P.C.B. 28/29, Office of this Paper.

LONDON, S.W.—Profitable Light Retail and Dispensing Business; Kodak Agency; small amount of N.H.I.; residential district; good Prescribing; excellent opportunity for Optics; ill-health reason for disposal; long lease; side entrance and garden; price, lease, fixtures, goodwill and stock, £600. 165/38, Office of this Paper.

LONDON, S.W.—Corner main road position; sound Business; N.H.I.; exceptional scope for Optics; trade £30 per week; living accommodation if required; valuable lease, 16 years; good stock and fittings; price £750 inclusive. Write 165/23, Office of this Paper.

LONDON, W.—Old-established Business, working class, thickly populated; inclusive rental 22s. per week; long lease; living accommodation; side entrance; returns £1,000 per annum, increasing; growing Panel, Kodak, Ucal; stock and fixtures worth nearly £500; vendor taking country premises, must sell quickly; £750, or nearest reasonable offer; genuine buyers only. 165/19, Office of this Paper.

MIDDLESEX (exceptional offer).—Sound established Chemist's Business; fine position; good-class district; well fitted and stocked; modern shop; excellent living accommodation; garden; returns £2,000 per annum; price £1,050; property (vendor's own) can be purchased or will lease at reasonable rental. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester. (Tel.: Failsworth 1913.)

NEAR BOURNEMOUTH.—Recently established Business for Sale; taking small but steadily increasing; rent £84; rates £19 10s.; lease granted, if desired, by vendor; well fitted and stocked; good living accommodation over premises; price £550 for quick sale; no triflers, please. 163/14, Office of this Paper.

NEAR LIVERPOOL.—Family Retail and Dispensing Business, working-class district, densely populated area; returns £600 per annum; capable of considerable increase when trade improves; N.H.I. 400-500 per month; stock estimated at £220; good living accommodation; shop and house in good condition; price £500; no agents. 167/19, Office of this Paper.

SHROPSHIRE.—Mixed Country Business; takings last year about £18 to £20 weekly; capable of increase; commanding position; living accommodation; large orchard; lease if desired; rent £40; rates £8; nearest chemist eight miles; price £300-£350. 165/26, Office of this Paper.

SOUTHSEA (main road corner).—Chemist's, Druggist's and Photographer's Business; established about 100 years; considerable Insurance connection; rent £150 per annum; large double-fronted shop and basement; price for business, lease, stock, adequate excellent fixtures, fittings and utensils, £1,500; selling owing to decease. Field & Palmer, 3 King's Road, Southsea.

BRANCH Business in good-class London suburb; established five years; splendidly situated; good living accommodation; would suit elderly chemist or qualified lady; low price for cash (about £600); ill-health cause of sale. 166/30, Office of this Paper.

DRUG Stores, Herbal Sundries (combined); wonderful opportunity; guaranteed more than a living; big connection; no opposition; nearly all profit; shop, two rooms, kitchen, big yard; side and back entrances; stock, fittings, agreement, goodwill, price £175; rent £2 weekly inclusive. "Mr. H.," 53 Church Street, Stoke Newington, N.16.

EXCELLENT Opportunity for a Smart Man.—Bournemouth, near sea, surrounded by boarding-houses and hotels, a nice Pharmacy, well stocked and fitted; worth £650; sell at £325 cash or valuation; now under management; could easily be worked up to £40 per week; rent £90 inclusive; long lease. Only genuine buyers need apply; proprietor too ill to be worried by inquisitive people. "Bargain," 83 Barnsbury Road, London, N.1. 'Phone: North 1224.

NEWLY-ESTABLISHED Business in North London; 21 years' lease; no opposition; main road position in good-class residential district; living accommodation; Kodak Agency; double-fronted shop; increasing turnover; illness sole reason for disposal; a good opportunity for energetic man; price all at £650 for quick sale; part cash can remain. 166/9, Office of this Paper.

OLD-ESTABLISHED Business for Sale; long and valuable lease; corner site in very busy thoroughfare; taking approximately £3,500; large N.H.I.; Optical department recently opened; district S.W. Further particulars and net profits given to principals only. 166/3, Office of this Paper.

RETAIL Cash Chemist's Business in North London for Sale; populous district; main road position; turnover exceeds £1,000 per annum; net profit over £300 per annum; rent £75 per annum; lease to 1950; upper part will let at approximately £145 per annum; no unusual competition; lease, fixtures and goodwill £500; stock at cost, approximately £160. 200/201, Office of this Paper.

THE old-established Business carried on by the late Joshua Barrett, of Mandrake fame, including Patent Rights of his famous Embrocation, Pills, Mandrake Powder, and Catchets. Particulars from 26 Beechfield Avenue, Blackpool, Lancashire.

£110.—LONDON, N.W.—Small neglected Branch Pharmacy in densely populated district; well stocked and fitted; no near opposition; excellent scope; takings £520 yearly, increasing; good N.H.I.; flat available; new lease at low rental; opportunity for single man with small capital. P.C.B. 30/4, Office of this Paper.

£130, ALL at, Drug Stores, main road, S.E.1; six rooms; low rent; could sub-let part to Dentist (chair included); scope for N.H.I. and Photography; same hands 37 years; sacrifice through death of proprietor; good stock and fittings included. Call Knowles & Co., 147-149 Newington Causeway, S.E.1.

£850 OR nearest offer for quick sale; only wants seeing; superior Drug Stores, Lancashire town; good living accommodation; double-fronted; 7 years' lease; Kodak; rent £48 per annum; extra good profits from own proprietaries; audited returns £1,708; splendid scope for N.H.I. Apply 163/15, Office of this Paper.

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SALE ROOMS, 5 LITTLE BRITAIN (close to G.P.O.), LONDON, E.C.1.
Removed from Wembley, etc., for convenience of Sale.
Well-made CHEMIST'S SHOP FITTINGS, Drug Run, Dispensing Screen, Glass Counters, Wall Showcases, Perfumery Desk, also Office Furniture, Safe, Typewriters, etc.

B. NORMAN & SON

Will Sell by Auction, as above, WEDNESDAY NEXT, at ONE o'clock.
On View Day Prior. Catalogues on application.

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WONDERFUL opportunity occurs for Chemist in Watford; grand position, main road, opposite station; modern shop, black and chromium front, beautifully fitted, cost £475; rent £175 per annum; will accept £150 for quick sale. Write Reading, 191 East Lane, North Wembley.

BUSINESSES WANTED.

LONDON OR NEAR. — Good-class Dispensing Business required, either with Optical connection or possessing scope for introduction of Optics; Pharmacist, with capital up to £3,500, open to negotiate immediately. Sound Retail Business also required on behalf of a further private client, who is prepared to purchase immediately; returns £2,500/£4,000 per annum, with quick counter trade; full cash transaction. All replies treated in strict confidence. Ernest J. George, Sentinel House, Southampton Row, W.C.1. Telephone: Museum 8340.

MANCHESTER or Liverpool suburb or district. Good-class Business required; capital available (position view succession or other district entertained). Particulars, rent, lease, turnover, accommodation, price, etc. Reply, in strict confidence, "Chemist," 11 Hollingbourne Road, Herne Hill, London, S.E.24.

AGENCIES.

AGENCY wanted; extensive London connection; own car and City office. 164/17, Office of this Paper.

APARTMENTS.

RESIDENTIAL CLUB FOR GENTLEMEN.

HAMPDEN CLUB, Hampden Street, N.W.1, close to King's Cross Station. Large club rooms. 300 bedrooms and bed-sitting rooms, 15s. to 25s. per week. Illustrated Prospectus, Secretary. Museum 3424.

APPOINTMENTS.

BRADFORD EDUCATION COMMITTEE,
TECHNICAL COLLEGE,
BRADFORD.

APPLICATIONS are invited for appointment as ASSISTANT LECTURER in the DEPARTMENT OF PHARMACY in the College.

The salary attached to this appointment will be according to the Burnham Scale, which is from £186 to £480 per annum (subject to the 10 per cent. general deduction). Commencing salary according to qualifications and experience.

Full particulars of the appointment and forms of application may be obtained from the Director of Education, Town Hall, Bradford, and completed applications should be returned to the Principal of the College not later than 6th April, 1932.

THOS. BOYCE, Director of Education.

FINANCIAL.

CAPITAL required to finance new Pharmaceutical Dental Speciality; an original preparation, quite unique, opening up entirely new field. 164/170, Office of this Paper.

SITUATIONS OPEN.

RETAIL (HOME).

CROYDON.—Young lady, qualified, required; must have good personality and be of smart appearance and accurate Dispenser. Apply, stating age, experience, and salary required, with photograph if possible, to 166/10, Office of this Paper.

EAST COAST.—Qualified Chemist for private limited company; working-class district; N.H.I. essential. Write, stating full particulars (salary must be moderate). Would consider semi-retired Chemist (male). 163/40, Office of this Paper.

KENT.—Qualified Assistant, must have had good experience and competent to take charge, for middle-class business. Send full particulars, stating when disengaged and salary required, and photo if available, to Mr. Court, Harbour Street, Whitstable.

LONDON.—Unqualified Junior wanted; one from the provinces or Scotland preferred, who is recently out of his apprenticeship and has had good training in Dispensing and Counter work. Apply, stating particulars of age, height, experience, and salary required, to 164/2, Office of this Paper.

MANCHESTER.—Capable and energetic qualified required for working-class district; must be quick and accurate Dispenser. State full particulars, including age, experience, salary, copy testimonials, etc. Letters unanswered within 7 days respectfully declined. Latewards, Ltd., 389 Ashton New Road, Manchester.

NEAR BOURNEMOUTH.—Manager wanted, single, age about 25-30, competent to carry on single-handed. State salary required and full details in first letter. 166/18, Office of this Paper.

MANNINGHAM, BRADFORD.—Qualified Branch Manager; Family, Photographic, Wines; opportunity for courteous Salesman and ambitious worker, with view to Partnership or succession; house if necessary; Optics could be added. References, photo, salary, etc., to Smallwood, M.P.S., F.B.O.A., Pudsey, Nr. Leeds.

PETERBOROUGH Friendly and Trade Societies' Medical Institute require the services of a lady Dispenser (M.P.S.); two surgeries daily, Sundays and Wednesday evenings excepted. Applications, with copies of references only, stating age and salary required, by April 5, to the Secretary, C. Edward Cox, 15 New Road, Peterborough.

APPLICATIONS are invited from qualified men to act as Relief Managers in the London area from May 1 to October 1; successful men will be considered for any available vacancies during or at the end of the period. Applications should give full particulars of experience, age, height, and wage required to 165/11, Office of this Paper.

BRANCH Manager, married, age 26-30, qualified, required in a large town in Eastern Counties; sober and industrious; middle-class business; experienced in good Family and N.H.I. Dispensing, Photography (no D. & P.); salary and commission with excellent house; situation is now open, but would wait for a suitable man. Apply, giving full particulars, to "Eastern," Messrs. Wright, Layman & Umney, Ltd., Southwark Street, London, S.E.

COMPETENT Assistant required (male); Counter, Dispensing and Window-dressing; must be keen and reliable. Particulars, age, height, experience and salary required, photo if possible, Hill & Shaw, 357 High Street, Cheltenham.

JUNIOR unqualified Assistant (male) wanted for good-class brisk Retail and Dispensing business. Applicants must be able to supply good references and apply by letter, in own handwriting, to A. H. Price, Chemist, 2 Guildford Road, Woking, Surrey.

LADY Assistant for high-class Pharmacy; good experience of perfumery essential. State experience, height, salary required and when free, and enclose photograph first letter. Applications not answered within four days consider declined. All photographs will be returned. Bayley, Chemist, Frinton-on-Sea.

LADY Assistant (qualified) for modern Family business in popular inland spa; must be first-class Dispenser; good prospects. Give details of age, experience, and salary required, and when free, to 201/203, Office of this Paper.

LEWIS & BURROWS have a vacancy for a young lady Assistant; well trained and good Window-dresser. Apply, giving full particulars of previous experience, to 146 Holborn Bars.

MANAGER; qualified; energetic; good Window-dresser and Salesman. State salary required and fullest particulars in first letter. Thos. L. Curtis, 38 Station Street, Swinton, Rotherham, Yorkshire.

MULTIPLE shop company, backed by Wholesale Manufacturing Chemists, require qualified Manager for Retail Branch; energetic business builder; invest £300 to £500 preference shares; salary, bonus and dividends; prospects promotion and assured future. Also unqualified Assistant with £200 investment. P.C.B. 28/35, Office of this Paper.

PART-TIME male Assistant wanted at once; unqualified; one used to Dispensing. 201/205, Office of this Paper.

QUALIFIED Lady Assistant required for London, S.E., Branch; N.H.I. Dispensing, Photography, etc.; permanency if suitable; commence April 9th. Apply, with full particulars as to age, experience and salary required, to Bewells, Ltd., 19/21 Pitfield Street, N.1.

QUALIFIED Assistant required in May for small Limited Company; easy hours; suit elderly man seeking light post; very low salary. Apply by letter, state lowest salary, and full particulars. Applications not answered, declined. Ashton, 1079, Chester Road, Stretford, Manchester.

QUALIFIED, gentlemanly Assistant for Branch Management, single-handed; good Counterman, Prescriber and Window-dresser. Please state all particulars and send photo; interview preferable. Lester, Chemist, Canterbury.

OPPORTUNITY.—Good position offered to qualified Chemist and Optician willing to invest in sound concern. Inquiries in first instance to 166/300, Office of this Paper.

QUALIFIED for Dispensing, Counter and Window; salary £4 to commence; permanent; Finsbury Park. 166/14, Office of this Paper

RELIEF MANAGERS.—Smart, young, qualified men required for relief duties; must be good Salesmen and able to make good displays; prospect of permanency. Give full particulars of age, previous experience, salary required, and when at liberty to 201/204, Office of this Paper.

RETIRED or elderly qualified Chemist wanted for part-time work; Croydon district. Write, stating full particulars, P.C.B. 28/34, Office of this Paper.

UNQUALIFIED male Junior, with knowledge of Optics and Frame Fitting (outdoors), for Light Retail Dispensing business. State age, experience, and salary required. Applicants not replied to in a few days to consider the vacancy filled. Photo if convenient, which will be returned. R. Deck, Regent Street, Cambridge.

WANTED, Dispenser, capable and thorough knowledge of Book-keeping and Accounts; also must keep Panel Records; good salary to suitable person. Apply Drs. Kehelly and Murphy, Ash Grove, Knottingley.

WANTED, an unqualified Assistant, young, honest; Dispenser. Apply The Garden Pharmacy, Ltd., 50 Great Garden Street, Whitechapel, E.1.

WHOLESALE.

DHAUSSY POWDER BOX CO., LTD., require Representatives; only first-class salesmen with established connections amongst Chemists, Hairdressers and Stores with experience of selling Proprietary Toilet Preparations need apply, by letter only (callers not interviewed). Sales Manager, 11 Bartlett's Buildings, E.C.4.

SALES Manager required for well-known firm of Manufacturing Chemists in London; applicant must be pharmaceutically qualified, thoroughly experienced in management of sales, propaganda and advertising; staff of representatives to be controlled; special knowledge of Proprietaries and Packed Articles; progressive salary offered to the right man. 200/200, Office of this Paper.

TRAVELLERS required, calling on Chemists, to carry as side line an entirely new nationally advertised product retailing at 1s. and having a ready sale. This is a line which, giving the traveller a clear 10 per cent. on initial order of £1 2s. means that 2s. commission can be earned on every call. Please reply, giving full particulars of lines at present carried and area covered, to "C. J. H.," 200/199, Office of this Paper.

TRAVELLERS wanted throughout the United Kingdom to sell high-class Beauty Line to Chemists, Stores and Beauty Parlours; only high-grade men with proved selling record entertained; liberal commission offers possibilities for a considerably augmented income. Write, stating area covered and lines at present carried, P.C.B. 28/30, Office of this Paper.

TRAVELLER required in provinces to represent Manufacturing Wholesale Chemists; specified area allotted; own Proprietaries, registered names; also packing under chemists' labels and otherwise; excellent prospects considerable turnover locally; investment £200 in preference shares required. P.C.B. 28/350, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN.

CEYLON.—Wanted, smart Junior, qualified Chemist, large Store in Ceylon; unmarried; salary four hundred rupees per month; annual increments twenty-five rupees; four years' agreement; passage paid. Write, stating age, giving full particulars, in confidence, present occupation, previous experience, to "Junior Chemist," care Deacon's Advertising Agency, 5 St. Mary Axe, London, E.C.3.

WEST AFRICA.—Required for West Africa, qualified Chemist; knowledge of Optics and Photography an advantage; under 30 years of age and single preferred. Apply, stating age and experience, with photograph if possible, to 200/181, Office of this Paper.

WANTED, Soap Boiling Expert with good practical experience. Apply to 164/5, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

A.A.A.A.—M.P.S.; experienced Manager or Assistant; disengaged; last engagement 12 years; London or suburbs. "Chemist," 7 Colwell Road, East Dulwich, S.E.22.

A.A.—QUALIFIED, 11 years' excellent experience, 7 years London, finest references, requires position, Manager or Assistant. Clifford Trewavas, 30 Milton Road, Bournemouth.

A.A.—MISS GRACE RENNIE, Pharmacist, now booking Locums for season; experienced Hospitals, General M.A.B. Mental; highest credentials; on L.C.C. Register. "Craig-y-Don," Marina, St. Leonards-on-Sea.

A.—QUALIFIED Chemist, age 38, requires situation; experienced; energetic; free April 9. "Pharmacist," 36 Gaskarth Road, S.W.12.

A FEW hours' daily employment wanted by elderly Pharmacist; small salary. "Galen," 81 Elgar Road, Reading.

A GENTLEMAN requires position of trust, Locum, Manager or Assistant; qualified; fluent French; long and varied experience, Photo and Pharmacy, mostly high-class; excellent testimonials. Harrison, Nottingham House, Beresford Road, W. Southbourne.

A QUALIFIED lady requires situation; Locum or permanent; wages moderate; good all-round experience. 164/8, Office of this Paper.

A QUALIFIED Chemist, 26, requires permanency; 10 years' experience, West End and provincial. "Pharmacist," 58 Queen's Road, Wimbledon, S.W.19.

A RELIABLE, unqualified, tall Assistant; 20 years' first-class experience, Dispensing, Counter, Photo; seaside, London, country; permanency; quick, clean, accurate; disengaged. Johnstone, 3 Babington Road, Streatham, S.W.16. 'Phone 1087.

A THOROUGHLY competent, unqualified Assistant; disengaged; quick Counter and Dispenser; general help all round; elderly, active, smart, with good recent references; reduced wages. Fairweather, 286 Kingsland Road, E.8.

A SCOT, qualified, 23, desires permanency; good appearance and address; excellent all-round experience, London and provincial; highest references; salary moderate. "Chemist," 33 Clarendon Gardens, Maida Vale, W.9.

ALEC MOORE, age 20 (Part I), desires situation; middle-class Pharmacy experience; large N.H.I., Counter work and Windows. Somercotes, Derbyshire.

APOTHECARIES' Hall, lady; 2 years' experience in Dispensing; disengaged now. 166/12, Office of this Paper.

AS General Assistant (lady); Counter and Toilet; good references. "F. W.," 53 Chichester Road, Kilburn, N.W.6.

ASSISTANT, qualified, 37, seeks situation; London or provincial large town. 164/4, Office of this Paper.

ASSISTANT; unqualified; 32; tall; married; 15 years' good experience, Counter, Dispensing and Window-dressing; excellent references. Fricker, 6 High Street, Epsom.

ASSISTANT; unqualified; 40; 20 years' all-round experience; London or near. Ash, 38 Lydford Road, Paddington, London, W.9.

ASSISTANT, 23, unqualified, requires situation; good references; moderate salary; disengaged. "G.," 30 Rutland Park, Sheffield.

ASSISTANT, 19½, seeks change; Midlands preferred; 5½ years' general experience. Fullest particulars from Cartlidge, 56 Balfour Street, Leicester.

BIRMINGHAM or Midland district preferred. As Manager, Assistant, or as Locum; thoroughly experienced and well recommended. Write or wire, "E. H.," 64 Hunters Road, Birmingham.

BIRMINGHAM DISTRICT.—Qualified lady (Square trained), 10 years' good all-round experience, desires post; permanent or Locum. 163/12, Office of this Paper.

CHEMIST, 25 Potters Street, Bishops Stortford, requires post Locum, Branch or Assistant; Dispensing, Counter; reliable, energetic, experienced. "Statim."

CHEMIST, qualified, 33, thoroughly competent, exceptional proved ability, desires management; prepared invest small capital; London suburbs preferred. 165/17, Office of this Paper.

CHEMIST, qualified, married, 28, desires situation as Manager; Partnership entertained; thoroughly experienced, reliable, and well recommended; 2 years' West-End managership; provinces preferred. "P.," 22 Auriol Road, London, W.14.

CHEMIST, 35, desires permanency in Midlands; thoroughly experienced and used to controlling large staff. Apply 167/17, Office of this Paper.

COMPETENT, qualified Assistant, 28, married, desires permanency; 12 years' experience; highest references; free one month from engagement. 166/32, Office of this Paper.

DISPENSER (lady, Hall), experienced, desires post; Locum or permanent; disengaged; Surrey or Kent. 133a Brigstock Road, Thornton Heath.

LADY Dispenser; disengaged; young; Hall qualification; Hospital, Chemist experience; whole or part time; London. Vicarage, 400 Commercial Road, London, E.1.

LADY Chemist, 27, five years' qualified experience, requires post with Chemist or Doctor. Williams, 77 Freshfield Road, Brighton.

LADY Nurse, Dispenser and Book-keeper (Hall) requires post with Doctor or Chemist; thoroughly experienced; excellent references. "Dispenser," 46 Bath Street, Abingdon, Berks.

LADY Assistant Dispenser desires post (Hall); good worker and typist; excellent references; Brighton or near. 8 Prestonville Road, Brighton.

LOCUM or permanent; age 34; good experience; Cheshire region preferred. "Chemicus," 6 Duke Street, Buxton.

LOCUM; qualified; reliable; registered R.P.U.; disengaged April 11. S. T. Hoskins, 20 Haddington Road, Stoke, Plymouth.

LOCUM; disengaged. "Chemist," 35 Axholme Road, Doncaster.

LOCUM.—Booking engagements now; experienced qualified lady or gentleman. Evans, 4 Station Parade, Northolt. 'Phone: Southall 1522.

LOCUM, qualified, 34, well experienced, registered R.P.U., available immediately. "Chemist," 236 Stafford Road, Wallington, Surrey. 'Phone: Wallington 1316.

LOCUM, qualified, registered R.P.U., now disengaged; reliable. Lane, 2 Manton Way, Galpins Road, Thornton Heath.

LOCUM, qualified, 34, good all-round experience, as Manager or Assistant. "Chemist," 50 Grove Lane, Camberwell, S.E.5. 'Phone: Rodney 2719.

LOCUM or part time; qualified; 27; 10 years' good all-round experience; any capacity. 166/6, Office of this Paper.

MAJOR man; 30; 14 years' good experience; reliable and trustworthy; disengaged shortly. Particulars from Carr, 3 Collingwood Terrace, Blyth.

M.P.S., F.B.O.A., F.S.M.C., F.I.O., J.C.Q.O., seeks position with scope; tall; keen; 25; Manager or Assistant; home or abroad; good references, etc. G. F. Wadham, 38 Wigmore Road, Worthing.

M.P.S. requires permanency, preferably as Assistant; young, competent, trustworthy; abstainer; excellent references; moderate salary. 164/22, Office of this Paper.

QUALIFIED lady, 24, desires position early May; reliable; good references; salary £3 10s. 5 Stanhope Avenue, N.3.

QUALIFIED, 30, desires permanency; 14 years' experience all branches. Terms, "Chemist," "Beechwood," Hungerford Road, St. Annes-on-Sea.

QUALIFIED, 25, requires progressive position to gain experience in Optics; excellent Window-dresser; quick and accurate Dispenser; free now. Caplan, 5 South Street, N.1.

QUALIFIED; Locum or permanent; 30 years' wide managerial experience; highest credentials; energetic; good personality. G. E. Norrish, Ventnor, Isle of Wight.

CLEAR OUT—your Old or Damaged Stock of Photo Goods
Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers. Cards (any sizes). Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

QUALIFIED; disengaged; 5 years London Manager; 40; moderate salary. Livingstone 3021. "Chemist," 20 Tudor Road, Upper Norwood, S.E.19.

QUALIFIED lady, 24, desires post in London; excellent experience in Retail; able to take charge; interview; references. 166/8, Office of this Paper.

THOMPSON CRABTREE (Exor.), Monton, wish to recommend their unqualified Assistant as being thoroughly capable, trustworthy, and reliable; age 25; married; 10 years in present position. H. Young, c/o Thompson Crabtree (Exor.), Monton Road, Monton, Eccles.

UNQUALIFIED male Assistant, 23, requires position, London or suburbs, until August; good all-round experience; disengaged. "T. A. B.," 60 Fentiman Road, S.W.8.

UNQUALIFIED; disengaged April 14-September; all-round experience; fast Counter and Dispensing. Luxton, 4 Gordon Road, Portslade, Sussex.

UNQUALIFIED; 21½; 4½ years' experience, Dispensing, Counter work, Window-dressing, D. & P., Dog Foods, General Agricultural; drive car; free immediately. "Dago," 59 Mill Street, Cannock, Staffs.

YOUNG lady desires London position; 3 years' good experience, Dispensing, Counter, Photography, Window-dressing. Jones, Station House, Llanfair P.G., Anglesey.

YOUNG Chemist-Optician, now managing, desires position, with or without Optics; would open up Optical Department on commission basis; own apparatus; free shortly. 26 Queen Anne's Place, Enfield.

WHOLESALE.

A LONDON Representative, with strong and extensive connection and initiative, is desirous of joining a reputable house where there is plenty of scope; own car, exceptional records, and credentials; many years' experience. 200/202, Office of this Paper.

A REPRESENTATIVE, keen, educated and trustworthy, extensive connection with London and Suburban Chemists, Hairdressers, Stores, etc., experienced with Toilet, Proprietary and Sundry Goods, desires engagement with good House. 166/34, Office of this Paper.

CHEMIST, 26, A.I.C., 3 years' experience Works Laboratory, seeks post, anything, anywhere. L. Bishop, 14 East Heath Road, N.W.3.

IRELAND.—A well-educated young man with very strong connection with Chemists in Ireland seeks representation good English house; Drugs, Proprietary, Toilets, etc.; thoroughly experienced; moderate salary. Write 163/20, Office of this Paper.

LONDON Representative, well-known Chemist, expert salesman, 12 years on the road, open for engagement. Earl, "White House," Ickenham.

QUALIFIED Chemist, with large experience of Drug trade and used to calling on Doctors, desires position as Representative in any capacity in South Yorkshire; can provide car if necessary; energetic and not afraid of work. "Chemist," 35 Axholme Road, Doncaster.

QUALIFIED Pharmacist, 26, seeks position as Medical Representative to reputable House; experienced first-class Propaganda; personality; efficient; resident London. 166/13, Office of this Paper.

QUALIFIED Representative desires lines on commission basis; own car; ground covered includes Leicester, Derby, Nottingham, Warwick, Northampton; would consider sole representation of reputable house. Apply 167/170, Office of this Paper.

SCOTTISH Representative, with first-class connection Chemists, Stores, etc., free now, desires good house; Packed Lines, Perfumery or Speciality; A1 credentials. 163/13, Office of this Paper.

TINCTURE Maker, Wet and Dry Counter, and Export Packer; 20 years' all-round experience. Canning, 171 Boundary Road, Leyton, E.17.

WELL-KNOWN Representative; nine years' sound connection; thoroughly experienced; pharmaceutically trained; Proprietaries, Propaganda; Yorks, Lancs, but not essential. 166/16, Office of this Paper.

YOUNG Representative seeks engagement; good connection Birmingham and Midlands; first-class experience and references; experience of Medical Propaganda work. 165/34, Office of this Paper.

COLONIAL, INDIAN AND FOREIGN.

QUALIFIED Chemist, returning to England in May on termination of second 4-year agreement with an English firm in India, desires position abroad; excellent experience and references. 152/2, Office of this Paper.

ALL PUBLIC PHARMACISTS
should join at once
THE NATIONAL UNION OF DRUG & CHEMICAL WORKERS
(incorporating the National Association of Chemists' Assistants)
BENEFITS: Trade Protection—Legal Aid—Unemployment Benefit—Free Use of Employment Bureau.
Write for particulars—ARTHUR J. GILLIAN, Gen. Sec.
149 NEWINGTON CAUSEWAY, LONDON, S.E.1

FOR SALE.

CASH Register, National make, for Sale; small and compact model; adds and checks takings; perfect working order. Letters to A. Brown, 33 Eglington Road, Plumstead.

THREE Porcelain Developing Tanks, perfect condition, £2 each for quick sale. Also special Non-leak Porcelain Tap (brand new) for developing tank, 7s. 6d. Reason selling, giving up business. 165/12, Office of this Paper.

MISCELLANEOUS.

A LARGE SELECTION of Second-hand Shop Fittings and Cases removed from various pharmacies: Dispensing Screens from £4 10s., Counter Cases from £1 10s., Counters from £4, Perfume Cases from 60s., Wall Cases from £4. Call and inspect, or write requirements to PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, London, E.C.1.

CHEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass Fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-glass Counters, Cash Tills, Display Stands and Glass Shelves, etc., ready for immediate delivery at competitive prices. Write or call for List. F. MAUND & E. BERG (SHOWCASES), LTD., 175/9 and 336 Old Street, London, E.C.1.

CHEMISTS' MAHOGANY FITTINGS.—Complete Drugfittings, 14 ft., 12 ft., 10 ft. and 8 ft. long, 8 ft. 6 in. high; Wallcases, 10 ft., 8ft., 7 ft. long, 8 ft. 6 in. high; Glass-front Counters, 12 ft., 10 ft., 8 ft. and 7 ft. long; one Wallcase, 4 ft. 6 in. wide, 7 ft. high, 1 ft. deep; Dispensing Screens, 7 ft., 6 ft. and 5 ft. long; two 4 ft. Nests Counter Drawers; low prices to clear; sketches by return. GEORGE COOK, The Working Shopfitter (over 40 years' experience), 27 Macclesfield Street, City Road, E.C.1. Clerk. 5371.

FOR Sale, two steam jacketed Dryers, also gas-heated Dryer. Apply 200/187, Office of this Paper.

FOR Sale, one No. 2 Impact Grinder with screens, suitable for chemicals. Apply 200/188, Office of this Paper.

FOR Sale, two steam jacketed Copper Boiling Pans, tested 80 lbs. working pressure. Apply 200/190, Office of this Paper.

FOR Sale, Werner type Mixer, also jacketed Mixer. Apply 200/191, Office of this Paper.

FOR Sale, No. 1½ Disintegrator on wood stand, in excellent condition. Apply 200/192, Office of this Paper.

WANTED, Gardner Sifter and Mixer, capacity 300 lb. State lowest price to 200/189, Office of this Paper.

TREBLES' for Chemists' Fittings, Shop Fronts, Alterations, new or second-hand. Let us quote for your requirements. Pharmacy Fitters for over a century. 549 Lea Bridge Road, Leyton, London, E.10. Leytonstone 2475.

12 FT. DRUG FIXTURE, drawers, glass knobs and labels; 10 ft. Counter, showcase front with movable shelves; 6 ft. Mahogany Wall Case, movable to top section; 5 ft. Mahogany Dispensing Screen, mirror centre, show case each side, work bench with shelving at back; Silent Salesman (counter type), mahogany frame, two plate-glass shelves; 30 recessed label Shop Rounds; the lot £57 10s. Apply RUDDUCK, 219 Old Street, London, E.C.1.

£?—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our showroom a Complete Chemist Shop with Metal Shop Front, Window Backs, Correct Window Lighting Signs and Modern Interior Fittings. Apply for Lists. D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

EXCHANGE COLUMN.

WANTED.

A QUANTITY of 1 oz. Bottles, not necessary to be accurate. Edgars, 25 Newington Green, N.16.

CASH REGISTER wanted, National model; hand or electric working; must be in good condition; cash waiting. Write P.C.B. 28/31, Office of this Paper.

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